

THE BIZARRE.

NOTES QUERIES

A MONTHLY MAGAZINE OF

*HISTORY, FOLK-LORE, MATHEMATICS
MYSTICISM, ART, SCIENCE, Etc.*

"The inhabitants of the earth have many tongues, those of heaven but one."
— *Henry Carey.*

VOLUME IV.

CONDUCTED AND PUBLISHED BY
S. C. & L. M. GOULD,
MANCHESTER, N. H.
1887.

“ Say, first of God above, or Man below,
What can we reason but from what we know?
Of Man, what see we but his station here,
From which to reason, or to which refer?
Through worlds unnumbered though the God be known,
'Tis ours to trace him only in our own.
He, who through vast immensity can pierce,
See worlds on worlds compose one universe,
Observe how system into system runs,
What other planets circle other suns,
What varied beings people every star,
May tell why Heaven has made us as we are.
But of this frame, the bearings and the ties,
The strong connections, nice dependencies,
Gradations just, has thy pervading soul
Looked through? or can a part contain the whole?
Is the great chain that draws all to agree,—
And, drawn, supports—upheld by God, or thee ?”

P R E F A C E .



We are told by Aaron Hill that "one must be well mounted who is for leaping the hedges of custom." The beaten way is usually the best, and always the safest. Therefore, it becomes us to make the usual remarks by way of preface. If one hundred years ago was an "age of discovery," as then claimed by an author, how much more is the present, an age of discovery and invention. Diogenes proved that there is motion by walking ; but we are easily convinced that there has been progression by comparison.

Happy is the person who lives in the age of cyclopædias, lexicons, magazines, newspapers, reviews, extracts, etc., so that each and all can gather the fruit of knowledge for themselves. Everything should be in order. The digressions, here and there, into which one is led by his thoughts, should not interrupt the seeker after wisdom. It should not be said of a writer that he wandereth from his subject. In a journey to be performed "from Dan to Beer-sheba," there must be occasionally a halt for observation. Matters will arise contingent to the subject, correlative to it, or excrescent from it. The gravities and levities of the subject of many authors, the opinions of men and things ; speculations, moral and political, physical and spiritual, philosophical and religious, each blending with each, and all in all ; and many times comprised in an &c. The true worshipper will exclaim with Robert Green—

*" Mnemosyne hath klsed the kingly Jove,
And entertained a feast within my brain."*

Many of these thoughts have been produced for the entertainment of the general reader, for the recreation of the busy one, for the amusement of the young, for the contentment of the old, for the pleasure of the wise, and the approbation of the good. We do not

pledge ourself to more than we can perform, and this the readers can have within reasonable limits, and in proper time, provided we are not prevented by the evils incident to human life. Life is brief, and yet Young exclaims, "How much is to be done!" We have no monuments or pyramids to build in stone. Quarles well illustrates the life of man by the following poem, found in the first edition of his works :

1.
Behold,
How short a span
Was long enough of old
To measure out the life of man !
In those well-tempered days, his time was then,
Surveyed, cast up, and found but threescore years and ten.

2.
Alas,
And what is that !
They come and slide and pass
Before my pen can tell thee what.
The posts of life are swift, and having run
Their seven short stages o'er, their short-lived task is done.

This volume, like its predecessors, is filled with a large variety of information on familiar and unfamiliar subjects, and we trust it has been perused with pleasure and profit by the many thousand readers of NOTES AND QUERIES. This volume is accompanied with a very full cross-reference index to Volumes III and IV which are pagged consecutively.

S. C. & L. M. GOULD.

MANCHESTER, N. H., December. 1887.

Questions and Answers.

Vol. I.	No. of questions published,	-	-	-	-	522
Vol. II.	No. of questions published,	-	-	-	-	491
Vol. III.	No. of questions published,	-	-	-	-	106
Vol. IV.	No. of questions published,	-	-	-	-	185
Total,						1304
No. of questions answered,		-	-	-	-	674
No. of questions unanswered,		-	-	-	-	630

INDEX.

VOLUMES III AND IV. 1886 AND 1887.

- Aaron's breastplate, 1.
 Aballiboozobanganorribo, 139.
 Abbreviated name, 710.
 Abbreviations, in autograph catalogues, 191.
 Abolitionist, 223.
 Abnormal hot and cold periods, 118.
 Acknowledge the corn, 29.
 Acrostical hymn, "Ichthus," 136.
 Adam's epitaph, 62.
 Æolipiles—Leviathan, 119.
 Affinity and Consanguinity, 394.
 "Agent, Actor, or Doer," 410.
 Ajax's prayer, 71.
 4 Kempis, Thomas, 133.
 Alchemical Enigma, 409.
 Alchemical extract from Ashmole, 64.
 Alchemical interpretation, Golden Fleece, 113.
 Alchemy and Golden Fleece, 114.
 Alexandrian Library, 19.
 Allegory or Parable, 308, 33.
 Alliterative poetry, 55.
 All Quiet on the Potomac, 223.
 Almighty Dollar, 223.
 Alphabetical Advice, 320.
 Amnesty Oath, 224.
 American Bastille, 223.
 American history, first events, 51.
 Americanism, 223.
 American Morse Telegraphic Alphabet, 185.
 American Specialties, 408.
 Amicable numbers, (63 pairs), 150.
 "Amicus Plato, amicus Socrates," 45.
 Ampère, 246.
 Ampersand, (&), 166.
 Anachronisms, curious, 35.
 Anagram concealing gunpowder, 83.
 Ancient receipt for making coffee, 39.
 Ancient riddles, 10, 11, 12, 13, 52, 160.
 Ancle, (—), 170.
 Angels, seventy-two, 347.
 Angels, Twelve guardian, 351.
 Angels, Zodiacal, 365.
Annals of Tacitus, 50.
 Annexationist, 224.
 Answer to Puzzle by Bishop Wilberforce, 303.
 Anti-Federalist Party, 224.
 Anti-Mason, 224, 287.
 Anti-Slavery Party, 224.
 Anointing oils, 2.
 Answers to Riddles, 221.
 AOM, 103, 104.
 Apocatastasis, 250.
 Apocalypse, 259.
 Apocrypha, 258.
 Apostles' Creed, 309.
 Apostles, double names of the twelve, 167.
 Apostles, other names in New Testament, 168.
 Arabic proverb, 19.
 Archimedes, 275.
 Archimedes' screw, 276.
 Archimedes, remarks of, 305.
 Archipelago, 401.
 Argonauts, 402, 433.
 Argos-eyed, Hydra-headed, Janus-faced, 463, 405.
 Arkansas, or Arkansaw, 279.
 Arithmetical poem, 150.
 Aspidochelone, the Saint, story of, 172.
 Atlantis, Lost, 75.
 Auld Beekie, Edinburgh, Scotland, 162.
 Aureus—the Golden Tractate, 240.
 Available, 224.
 Avatars, 116.
 Axioms and Postulates, (XII).
 Baccalaureate sermons, 17.
 Ballot-box Stuffing, 224.
 Barn-Burnings, 224.
 "Battle Cry of Freedom," 390.
 "Battle Hymn of the Republic," 135, 390.
 Battle fought at Lexington, Mass. ? 84.
 Battle of Bennington—Poem, 338.
 Barometers, paper, 125.
 Bayne's Law, 435.
 Beast Butler, 224.
 Beatitudes, 259.
 "Benefit of Clergy," 409.
 Bengough, Name of, 440.
 Benjamin Franklin's Systematic Method, 267.
 Betweenity, 224.
 B'hoys, 224.
 Big-Jog-in-the-Tan-Yard, 224.
 Bill of fare, (1752), 126.
 Blackbird, First, 330.
 Black Jack, 224.
 Black Republicans, 225.
 Blank verse, earliest attempt, 1.
 Bleeding Kansas, 225.
 Blennerhassett an Englishman, 83.
 Blue Bellies, 225, 287.
 Blue-Book, 225.
 Blue-Law State, 225.
 Blue Laws of New England, 225.
 Blue Lights, 225.
 Blue Skins, 225.
 Bode's Law, 435.
 Bogs, origin of word, 30.
 Bohemians, 89, 185.
 Bonaraba, who was ? 26.
 Boodle, 225.
 Boodlers, 225.
 Bolters, 225.
 "Bonnie Blue Flag," 390.
 "Bonnie Blue Flag," 390.
Books of the Bible, Divisions, 268.
 Boscawen, a town, and island, 215.
 Boundary of Delaware, 44.
 Bounty-Jumpers, 225.
 Bourbon Democrats, 225, 287.
 Border-Ruffians, 225.
 Boycotting, burking, 182.
 "Boys Are Marching," 390.
 Boys-In-Blue, 225.
 Brachystochrone, Curve, 431.
 Bridal veil, 123.
 Brevet Hall, 225.
 Brief Poem, 409.
 British Stamp-office and the Liberty Pole, 1818, 418.
 Bucktails, 225.
 Buddha's Decalogue, 312.
 Buncombe or Bunkum, 30, 225, 287.
 Bungtown Copper, 225.
 Burking, boycotting, 182.
 Button-holing, 225.
 Butternuts, 225, 287.
 Caboodle, 225.
 Cabots, first land seen, 250.
 Canticles, 258.
 "Call me Daphne, call me Chloris," 335.
 Canaille, meaning of word, 167.
 Canonization, 91.
 Capital and Labor, 226.
 Cappadocia, Cilicia, and Crete, 132.
 Carpet-Baggers, 226.
 Catawampously, or Catawamptiously, 226.
 Caucas, 226, 287.
 Celebrated persons, curiosities concerning, 14.
 Chaldean Baros, 43.
 Champion, champagne, chamomile, 210.
 Chances, Homeric and Virgilian, 43.
 Changed His Base, 226.
 Characteristics of a great man, 178.

- Charles XII of Sweden, 219.
 Chicken Pie, 226.
 Chi-ri-bau, ancient name of America, 75.
 Chone, origin of word, 121.
 Christmas pie of ye olden time, 2.
 Chronology, divine system of, 310.
 Churchman, and German, high and low, 18.
 Circumnavigation of the earth, 142.
 City, the term, 48.
 Civil war, closing date, 45.
 Classic names. Graces, Fates, Furies, 182, 192.
 Clean Ticker, 226.
 Cleobulus's Riddle, 11.
 Clitmacrical year, 91.
 Closing the eyes in prayer, 341.
 Coalition, 226.
 Cocalgne, Land of, 373.
 Cock-tail, 226.
 Cœur de Lion, 430.
 Coffee, ancient receipt for making, 39.
 College Cheers, 242.
 Composition of the human body, 339.
 Coinage, 2.
 Coincidental logarithms, 26.
 Common-gavel, 108.
 Confederate Music-box, 226.
 Confucius and Lao-Tseu, 130.
 Congress, 226.
 Conquerer of Rome, where buried, 62.
 Contemporary, or cotemporary, 150.
 Contented Lickspittle, 226.
 Conscript, 226.
 Continental Damn, 226.
 Contingent-al names, 266.
 Contraband, 226.
 Cooping Voters, 225.
 Copper-Head, 226, 288.
 Cosmo de Medici, 89.
 "Cosmos is the champion of the just," 216.
 Corruption, 227.
 Cottle Church, 442.
 Cottocracy, 227.
 Coulomb, 246.
 Counting-out rhymes, 36, 48.
 Coupons, 227.
 Cowboy, 227.
 Cova, or Lineation of Fohl, 14.
 Craftsmen, traditional names of, 167.
 Credit Mobilier, 227, 288.
 Crowning ceremony after death, 220.
 Curiousities concerning celebrated persons, 41.
 Curioso in mathematics, 147, 199.
 Curious anachronisms, 35.
 Curious wills, 35, 42.
 Cursing by bell, book, and candle, 172, 198.
 Dark-Horse, 227.
 Darnation, 227.
 Darwin, Erasmus, 65.
 Date, closing the civil war, 45.
 Date of the Sudbury fight, 167.
 Darwinism, or Darwinianism, 395.
 Dead-Lock, 227.
 Debates of Lincoln and Douglas, 402.
 Decalogue, 258.
 Deep Sea-Soundings, 84.
 Deltas of rivers, 45.
 Democratic and Republican Government, 392.
 Democritus—"the Laughing Philosopher," 286.
 Demonstrations of Pythagorean Proposition, 340.
 Descendants of Judas Iscariot, 158.
 Devils of Varnish, 248.
 Devotional Diamond Bible, 215.
 Diatheka, 258.
 Di do dum; Fi fo fum, 129.
 "Dies Ira," Franciscan hymn, 127.
 Dighton Rock, 87.
 Digital squares, (28), 153.
 Digita, Curiosities of, 410.
 Dimas and Gestas, the two thieves, 184.
 Discoveries, inventions, improvements, 27, 28.
 Divide an Arc or Angle into any number of equal parts, 312.
 Divination, methods of, 190.
 "Dixie" or "Lorena," 390.
 Dog (The) in literature, 173, 202.
 Dollar Mark, (\$), 241.
 Do, re, mi, fa, sol, la, si, do, 80.
 Double Consciousness, 397.
 Dough-Faces, 217, 227, 283.
 Doxology, greater, and lesser, 124.
 Dowry of a princess, 50.
 Druzes, The, 374.
 Dyed-in-the-Wool, 227.
 Dying words of noted persons, 143, 292.
 Eagle, 227.
 Early cane, 126.
 Earth-eaters, 219.
 Egg Question, 262.
 Elder Tripolemus Tab, 438.
 Emancipation Proclamation, 227.
 Empire State, 227.
 End of the world, 64.
 Engage, 227.
 English names, pronunciation, 342.
 Enthuse, 227.
 Epheean letters, 216.
 Epistles of Jesus and Abgarus, 180, 181, 277.
 Epistles, 259.
 Epitaph, Adam's, 52.
 " Homer's, 11.
 " Stanislaus', 79, 133.
 Epithets, Mottoes, Political, 228, 287.
 Epochs, Eras, Periods of the World, 280.
 Equation, Asher B. Evans's value, 23.
 " Artemas Martin's least value, 24.
 " Dr. John Wallis's, value of, 24.
 " Eternal fitness of things," 119.
 " Eternal vigilance, price of liberty," 165, 192.
 Etruscans, ancient, 284.
 Evangeline, 259, 390.
 Evection, 378.
 Expansion of Railroad Rails, 245.
 Extraordinary personages of history, 68.
 Fallacy of a problem, 149, 198.
 Fallacy, A, 262, 323, 399, 400.
 "Fame's proud temple," 186.
 Familiar quotations, 53, 109.
 Farad, 246.
 Fates, Furies, and Graces, names, 182, 192.
 Father Abbey's Will, 315.
 Father of People and Freer of Country, 69.
 Father Rael's "strong box," 45.
 Federal, 228.
 Federal Currency, 228.
 Federalists, 228.
 Ferry-boats first mentioned, 80.
 Fifth-Monarchy Men, 439.
 Fiat Money, 228.
 Fi fo fum; Di do dum, 128.
 Fight it out on this Line, 228, 288.
 Fire-eaters, 228.
 First Boat Driver on Erie Canal, 262.
 First cause, Sir Thomas Browne's, 216.
 First events in American history, 51.
 First greenback note, 126.
 First in War, Peace, and Hearts, 395.
 First line of Thomas Paine's *Crisis*, 127.
 First occurrences of important events, 291.
 First song, 135.

- Fohl's Cove, or Lineation, 14.
 Four greatest American, German, and French thinkers, 213.
 Four second causes of Plato, 216.
 "Fourth Dimension?" 325.
 Fourth of March on Sunday, 138, 161.
 Five operations of the Lord, 307.
 Franklin, epitaph of, 263.
 Fractional Currency, 228.
 Free-soilers, 228.
 Free-Trade Party, 228.
 French Calendar, 330.
 French medical savan, 87.
 Furies, Fates, and Graces, names, 182, 192.
 Gaelic proverbs, 55.
 Geographical fact, 87.
 German, and Churchman, high and low, 18.
 Gerrymandering, 223, 288.
 Gibbon, the historian, 41.
 Giotto's O, round as, 163.
 "Give me the making of the songs," etc., 81.
 God and human soul, Suffee fable, 182.
 God's wounds, 19.
 Gold and Silver, divine art of making, 240.
 Gold, or Golden, 431.
 Golden Rule, 240.
 Golden Fleece and alchemy, 114.
 " " legend of, 113.
 Golden Wedge of Ophir, 404.
 Golf, game of, 288.
 Golgotha—"Place of the Skull," 247, 290.
 Gold dollar, 47.
 "Gone to grass," 337.
 Good luck, horse-shoe, 163.
 Go the whole Hog, 228.
 Governors of California, 159.
 " " Ohio, 66.
 Graces, Furies, and Fates, names, 182, 192.
 Grandiloquent Communication, 342.
 Granite State, 228.
 Grant, Ulysses Simpson, or Hiram, 185.
 Greenbacks, 228.
 Greenbackers, 228.
 Gubernatorial, 228.
 Guerrillas, 229.
 Gulf States, 229.
 Gunter's Chain, Line, Quadrant, Scale, 188.
 Gunpowder, Bacon's anagram concealing, 83.
 Holy-of-Holies Explained, 255.
 Homeric chances, 43.
 Homer's epitaph, 11.
 Homer's riddle, 10.
 Honey-fogle, 229.
 Honolulu, Honolulu word, 26.
 Hoops and Trails, 414.
 Hoosier, 229.
 Hops, 125.
 Horner, Little Jack, 312.
 Horse-shoe and good luck, 163.
 House that Jack Built, 243.
 How much is a Billion? 245.
 Human knowledge, sum of, 141.
 Human Proportions, 258.
 Hugh de Payens, 330.
 Hume's Argument *vs.* Miracles, 381.
 Hunkers, 229, 288.
 Hungry as between two measures of oats, 45.
 Huxley's table of weight, 318.
 Hymn to St. John, 315.
 Hymns, 80, 135, 137.
 "Ichthus," acrostical hymn, 138.
 "Jesus Christus Theus Uios Soter," 137.
 Illuminati, 281.
 Imitation of Christ, or Shakespeare, 18, 113.
 Improvements, inventions, discoveries, 27, 28.
 Incidents and Reminiscences, 413.
 Indian counting, 18.
 Indian summer, 30.
 Indian Liquor, 229.
 Inhaling the breath, 1.
 Inscription Stone Unearthed, 269.
 Inscriptions on monuments, 211.
 International questions, 50.
 Inventions, discoveries, improvements, 27, 28.
 "In Xanadu did Kubla Khan, 132."
 Israel, twelve tribes of, 282.
 "Irish Jaunting Car," 300.
 Ireland's emblem, the shamrock, 90.
 Iron-clad Oath, 229.
 Italian translations of *Paradise Lost*, 50.
 Jacques de Molay, 430.
 J, history of the letter, 85.
 Jannes and Jambres, 184, 283.
 Jaw-bone twice (*Judges* xv, 16), 215.
 Jay-hawker, 230.
 Jeff-Davis Box, 230.
 Jethro's Seven Names, 438.
 Jesus, Names of, 375.
 Jeroboam's army, 284.
 "Jimpicute," 265.
 "Job Saa," Letters of, 18.
 "John Brown's Body," song, 39.
 John, Prester, 41, 133.
 Judas-colored hair, 104.
 Judas Iscariot, descendants of, 150.
 Judas Maccabeus, 106.
 Judge Lynch, 230.
 Judiah, the Ethiopian eunuch, 121.
 Jumping a Claim, 230.
 "Just Before the Battle, Mother" 400.
 Kappadocia, Killicia, and Krete, 132.
 Keystone State, 230.
 Kila, 230.
 Kilkenny cats, 3.
 King and the Spider, 242.
 King's Chapel, Boston, 420.
 King Solomon's Temple, Cost of, 306.
 Koneleth, 258.
 Konx, Om, Paq, 306.
 Know-Nothing, 230, 323.
 Koran (*The*), 19.
 Koran, Initial Letters in the, 379.
 Krishna, 117, 164.
 "Fall to the Chief," 390.
 Hairy hearts, 38.
 Ham Lin, 257.
 Half-Breeds, 229.
Hammer of Thor, or Master's Mallet, 93.
 Hard-shell Democrats, 229.
 Hard Tack, 229.
 Harvest Moon, 408.
 Hawkeye State, 229.
 Hayward, 392.
 Head-Rights, 229.
 Helens, Two, 373.
 Henry VI, manuscript of, 42.
 Hermes' riddle, 12.
 Hermes "Triemegistus," 405.
Hermippus Revised, 1.
 Hickory Unionists, 229.
Hidden Wisdom of Christ, 218.
 Hieroglyphic, 34.
 Higher Law, 229.
 High-priced Almanac, 350.
 Hindus, 229.
 Hiram, or Ulysses Simpson Grant, 185.
History of the Apocrypha, 218.
 History of the letter J, 85.
 " " W, 86.
 Hocus-pocus, 337.

- Krisa Kringie, 170.
 Ku Klux Klan, 230, 288.
 Lacassa, name of queen Candace, 121.
 Ladder which reaches to Paradise, 332.
 Lao-Tseu and Confucius, 130.
 Largest things on earth, 61.
 Last Messiah, 249.
 Last words of noted persons, 143, 292.
 Latest Easter Sunday, 279.
 Latin-English Words—Comparative Degree, 332.
 Lecomptouite, 230.
 Lee, Gen. Charles, 41.
 Legend of Golden Fleece, Interpretation, 113.
 Letters of "Job Sass," 18.
 Leviathan—Eolipiles, 119.
 Liberty Caps, 189, 230, 288.
 Liberty boys, 47.
 Libration, 378.
 Lin Coin, 266.
 "Light that never was on sea or land," 186.
 Linition, or Cova of Fohi, 14.
 "Lines on a Skeleton," 58.
 Lion and the Unicorn, 329.
 Little Jack Horner, 212.
 "Lively Old Lady," 221.
 Lobby, 230.
 Loco-Foco, 230.
 Logarithms, Napierian base, 22.
 " Modulus of Common, 22.
 " Coincidental, 26.
 Log-Cabin and Hard-Older Party, 231.
 Log-rolling, 231.
 Louis Star State, 231.
 Long-Heels, 231.
 Longest Sentence, 410.
 Longinus, who pierced Jesus's side, 185.
 Long Names, 265.
 Long words, 279, 212.
 Lost Atlantis, 75.
 " Ten Tribes, 72.
 Lord's Prayer at different periods, 31.
 Loyal League, 231.
 LURA YOFO VIE CAN UTHIET, anagram, 83.
 Lynch Law, 231.
 Maccabees, 105.
 M C C C C X L, 129.
 Mal Stone, 270.
 Magic square, symmetrical, 152.
 Magical Aphorisms, Eugenius Philalethes, 269.
 Magnifying power of optical glasses, 81, 87.
 "Malien," Prolific Word, 442.
 Malachi, 407.
 Malfatti's Problem, 272, 369, 437.
 Mammoth Cave, 406.
 Man-in-the-Moon, 399.
 Manifest Destiny, 231, 437.
 Man of Truth (The), 79.
 Manuscript, Henry, VI, 42.
 Manuscript, Shapira, 14, 15.
 Mason and Dixon's Line, 231.
 Masonic Rites.
 Masonic Eras, 281.
 March borrowing days from April, 118.
 "Marching Through Georgia," 390.
 Marvellous Work, 257.
 Martel (Marshall), Charles, 105.
 Master's Mallet, or Hammer of Thor, 63.
 Masterly Inactivity, 231.
 Mathematics curious in, 147, 161, 272.
 " problems, solutions, 147, 150, 161, 171, 189.
 Maxims of Catwag, 78.
 " Confucius, 131.
 "Meanest of mankind," 46.
 Measures of Electricity, 246.
 Meeting-house first applied to church, 64.
 Megilloth, 258.
 Methods of divination, 190.
 Michelagnolo's name, 46.
 Midraab, 258.
 Milton's Bible, 266.
 Minnehaha, 320.
 Minocrans, 47.
 Miracle at Cana in Galilee, 430.
 Misquotations from Scripture, 385, 435.
 Missourium, 16.
 Miscegenation, 231.
 Mnemonics, rules in, 74.
 Modulus of Common Logarithms, 22.
 Mohammed in prophecy, 74.
 Mohammedans' prayer, 71.
 Money-Bags, 232.
 Monroe Doctrine, 232.
 Months, names of, 331.
 Moss-Backs, 232.
 Mottoes, Epithets Political, 223.
 Mottoes of States and Territories, 56, 57.
 Mothering Sunday, 284.
 Mouse Tower on the Rhine, 306.
 Mud-sills Clubs, 232.
 Mugwumps, 232.
 Murdering Latin, a protest, 86.
 Murder-wounds bleeding afresh, 3.
 Music of the Spheres, 341.
 Musical Scales, 313.
 Name of God, 12-, 42-, and 72-lettered, 72.
 Names for Candidates, 266.
 Names and Words, Curious, 265.
 Names of the Saxon Months, 230.
 Names of God, 72, 73.
 " Queen of Sheba, 120.
 " two thieves, 184.
 " traditional craftsmen, 167.
 " Smectynunus, 122.
 " twelve apostles, 168.
 " Pharaoh's magicians, 184.
 " Lamech's sons, 103.
 " Thor's hammer, 95.
 " two letters, 134.
 " Queen Candace, and eunuch, 121.
 Nancy Taylor's Queer Eyes, 263.
 Napierian base, logarithms, 22.
 Napier's Rule, sine and tangent, 74.
 Native Americans, 232.
 National Party, 232.
 "Nature formed but one such man," 45, 404.
 Naroses, twelve Messiahs, 355.
 Nebuchadnezzar, doerstep of, 303.
 Niggerheads, 232.
 Nine tailors make a man, 80.
 Nine-Lettered Words, 249.
 Ne Plus Ultra, 294.
 New Names, 265.
 New Rendering, 270.
 New Scriptures, 34.
 New York city, or New York City 18.
 Noah prayer over Adam's body, 40.
 Noachic Deluge, 337.
 Noms de plume, 121.
 Non-Slave-Holding, 232.
 North Americans, 233.
 Northerner, 233.
 Notch in lappel of a man's coat, 127.
 Notes on eccentric divines, 135.
 Numbers, Properties of, 322.
 Numerals of the Bible, 888, 311.
 Number: a link between Human and Divine, 311.
 Number "Seven" in Scripture, 311.

- Numbers, Mysteries, 301.
 Nullification, 233.
 Nutrition, 388.
 Nutmeg State, 233.
 Osage, Words from, 281.
 Observations on digital squares, 155, 156.
 Obliterated Burial Grounds, 1818, 418.
 Oecumenical Councils, 372.
 "O Galilee, Thou hast conquered," 127.
 Ohm, 246.
 Old Coquina Fort, 47.
 Oldest bank-note, 126.
 Old Dominion, 233.
 Old Hickory, 233.
 Olive, Princess of Cumberland, 260.
 One more than the other, 335.
 One law, one tongue, one faith, 315.
 Ordo Seclorum, 312.
 Oneten, twelve, thirteen, 89.
 Optical glasses, magnifying power, 81, 87.
 Oxygen known to the Ancients, 241.
 Origin of Roman numerals, 123.
 Origin of sub-rosa, 17.
 O, round as Giotto's, 166.
 Pair (A), not two, 125.
 Painting the Town or City Red, 233.
 Palmetto Capital, 233.
 Palmetto State, 233.
 Palmon—"The Wonderful Numberer," 310.
 Paper barometers, 123.
Paradise Lost, Italian translations, 50.
 Paris professor and hungry ass, 45.
 Paris Tower, Height of, 377.
 Pasteur, Louis, French savior, 87.
 Pater Noster, others, 71.
 Pater Noster, 259.
 Patron Saints, 367.
 Pélé's hair, 78.
 Pentateuch, 258.
 Pentagrammaton, 339.
 "Pens, Diamond-pointed," 281.
 Permutation of Words, 264.
 Personages of history, extraordinary, 68.
 Peter's Pence, 296.
 Portraits of Christ, Early, 441.
 Pharaoh—a title of kings, 128.
 Pharaohs, eleven persons in Bible, 128.
 Philis Wheatley's Story, 413.
 Philonic, Strabonic or Straborean, 219.
 Pi (π), value of, 20.
 Pine Tree State, 233.
 Pipe Laying, 233, 288.
 Platform, 233.
 Plagues, 350.
 "Plato is my friend, Socrates is my friend," 45.
 Plato's Nuptial Diagram, 74.
 Platonic, Philonic and Strabonic, 303.
 Pleiades, 401, 442.
 "Plon Plon," 320.
 Poem of Poems, 304.
 Politics, 1841, 419.
 Political Epithets, Mottoes, 223.
 Political Bender, 233.
 Political Bolters, 233.
 Pope's "Universal Prayer," 71.
 Popular Sovereignty, 233, 289.
 Poquetannoc—sixteen ways to spell it, 279.
 Powdered Hair, 1801, 415.
 Power of 2, 22, 331.
 "Praises from Sir Hubert Stanley," 83.
 Prayers, sublime, 40, 71, 167, 186, 219.
 Precious stones, 38.
 President's cabinet, 47.
 Prester John, 44, 133.
 Prize questions and answers, 77.
 Problem, King Solomon's, 159.
 Prohibitionists, 233.
 Pronouns and Names.—It Dead and He Mourning, 387.
 Pronunciation of the word "To," 296.
 Pouring Oil on the Troubled Waters, 323, 333, 368, 369.
 Prophecy of Nostradamus, 64.
 Pro-Slavery, 234.
 Protective Tariff Party, 233.
 Protest, murdering Latin, 86.
 Proverbs, 19, 55.
 Proxy, or proxy, 30.
 Public worship on all days of the week, 158.
 Public Castigation and Homicide, 1802, 415.
 Public Whipping, 1804, 416.
 Puzzle by Bishop Wilberforce, 303.
 Postulates and Axioms, (X17).
 Quotation from Jesus, 294.
 Quotations from the *Sacred Roll and Book*, 172.
 Queer Names, 410.
 Queen of Sheba, names of, 120.
 Quincy's comparison, 159.
 Rads, or Radicals, 234.
 "Rain, Hail and Snow," 268.
 Reading, 'riting, and 'rithmetic, 124.
 Rebs, or Rebels, 234.
 Red Dog Money, 234, 289.
 Rehoboth's army, 284.
 Remedy of the Mint, 138.
 Reduplicated words, 217.
 Repetend of $1 \div 37$, 25.
 Republicans, 234.
 Revised spelling, 85, 166.
 Revolution, 378.
 Riddles, 10, 11, 12, 13, 52, 160, 221.
 Riot, judicial definition, 4.
 Rock-fish, 161.
 Rolling-gates, 58.
 Roman numerals, origin of, 123.
 Roorkack, 234.
 Roelucians, 433.
 Rotation, 378.
 Rough-skins and Ranters, 234.
 Rough and Ready, 234.
 Round as Giotto's O, 166.
 Rules of Life, 312.
 Bag-Nichts, 234.
 Saltontall's, Leverett, works, 46.
 Sam, 234.
 Sampson's riddle, 11.
 Sanskrit words, 104.
 Sars, Chaldean, 49.
 Sawyer, Name, 433.
 Scales, number of, 314.
 Scale The, origin of, 80.
 Scripture riddle, 82.
 "Sea," "Ocean," 307.
 Sea-faring Men, Names, 434.
 Secessionists, 234.
 Secret of Hegel, 218.
 Secret of Jesus, 218.
 Secret of Swedenborg, 218.
 Sentiments of Precious Stones, 331.
 Sephiroth (The), 73, 102.
 Serif and sans-serif, 197.
 Setting-man, 108.
 Seven Great Commandments, 374.
Seven Lamps of Architecture, 197.
 Seven modern wonders of the world, 198.
 Seven-octave instrument, tuning, 121.
 Seven Precepts of Noah, 375.
 Seven rules of Catwag the Wise, 78.
 Seven words on the Cross, 117, 163.

- Shakespeare, anachronisms, 35.
 " first American mention of, 181.
 " or *Imitation of Christ*, 18, 181.
 Shamrock, Ireland's emblem, 90.
 Shapira manuscript, 14, 15.
 Sheba, Queen of, 283.
 Shem-hamephorash, what is it? 5, 345.
 Shoe pegs, 38.
 Short names and words, 134.
 Shoulder-Hitter, 234.
 " Show the White Feather, 437.
Simple Coder of Agateam, 80.
 Single-speech Hamilton, 214.
 Single-Song Writers, 282.
 Signs of the Zodiac, 42, 115.
 Singularly-constructed words, 138.
 Slang-Whanger, 234.
 Slaveocracy, 234.
 Skedaddlers, 234.
 Sneezicks, 235.
 "Skin of my teeth," 333.
 Smectymnus, 122.
 Snakes climb trees, 162.
 Sneezing, Omens of, 381.
 Socrates's prayer, 167, 186.
 Soft-Shell Democrats, 235.
 Solomon, 370.
 Solomon's riddles, 13.
 Solomon's problem, 159.
 Sorosis in 1775, 1.
 Sortes, 43.
 Sound produced by wind instruments, 162.
 South Americans, 235.
 Southey's words for title-pages, 139.
 Spartacus the Gladiator, 49.
 Spartaes, 125.
 Speculations on value of Pi, 21.
 "Sphere," origin of the word, 328.
 Sphinx's riddle, 11.
 "Spifflicate," 265.
 Spinner, Gen. Francis E., 167.
 Split, 234.
 Split Ticket, 235.
 Spells, 235.
 Square root of 2, 22.
 " " of 2, squared, 23.
 " " of 3, 28.
 Squaring Numbers, 263.
 Squatter Sovereignty, 235.
 St. Aspinquid, story of, 172.
 St. Helena, Island of, origin of name, 219.
Staff of Adam, 345.
 Stalwarts, 235.
 Stamp Act, 235.
 State Rights, 225.
 Sterne, Lawrence, 41.
 Story of St. Aspinquid, 172.
 Strabon or Straborean, 219.
 Straight-Outs, 235.
 Straw-Ball, 235.
 Strikers, 235.
 Stump Orator, 235.
 Sublime prayers, 40, 71, 167, 186, 219.
 Suckers, 235.
 Sudbury fight, date of, 157.
 Suffee fable, God and human soul, 192.
 Sum of human knowledge, 141.
 Superscription on the Cross, 117.
 Sufism, 439.
 Surprise Candidate, 235.
 Sun rising in the West, setting in the East, 135.
 Swane, their last song, 427.
 Swedberg-Swedenborg, 70.
 Symbols of the four elements, 179.
 Symmetrical magic square, 152.
 Synoptics, 259.
 Table of Kindred and Affinity, 384.
 Tall chimneys, 64.
 Tangle-Foot, 236.
 Tarpian Rock, 87.
 Arabian Maid betrayed a city, 210.
Telegonia, author of, 25.
 Telegraphic Alphabet, 185.
 Temperature, warmest and coldest, 84.
 Ten Sephiroth, 296.
 Ten Commandments, new rendering, 317.
 Ten Precepts, 304, 376.
 Teeth wave, 71.
 Test of Religious Principles, 1804, 416.
 Tetragrammaton, 4, 104, 308, 339.
 Texas, 246.
 "That will do to tell to the Marines," 391.
 "The Battle Cry of Freedom," 390.
 "The Path by which to Deity we climb," 429.
 Thimbles, 371.
 Three bad Kappas, 132.
 Three R's, 124.
 Thoreau's (Henry D.) prayer, 186.
 Title, Honorable, 307.
 To copy printed matter, 128.
 Tory, 236.
 Trade Dollar, 236.
 Trade Winds, 236.
 Traditional names of craftsmen, 167.
 Translation (1 Chron. xxix, 38), 197.
 " Stanislaus' epitaph, 183.
 " Bishop Abbott's last words, 186.
 " Sibylline hymn, 137.
 " Franciscan hymn, 138.
 " *Paradise Lost*, 30.
 " Signs of Zodiac, 115.
 Translation of Epitaph of Paracelsus, 284.
 Triads, 440.
 "Truth is a greater friend," 45.
 Tub, Elder Triptolemus, 76, 438.
 Tuning a seven-octave instrument, 121.
 Turquoise, 38.
 Two Latin Inscriptions, 302, 410.
 Uncle Sam, 236.
 Uncle Sam's Crib, 236.
 Under-Ground Railroad, 236.
 Up Salt River, 236, 289.
 " Universal Prayer," Pope's, 71.
 Univocalic Verses, 249.
Unlearned Alchemist his Antidote, 38.
 Urim and Thummim, 1.
 Value of Pi, 20.
 Variations of Spelling, 388.
 Vatican at Rome, 90.
 Vermont, 236.
 Veronica, who touched Jesus's garment, 184.
 Vigilance Committee, 236.
 Virgilian chances, 43.
 Volt, 246.
 Wages, rates of, 2.
 Walking-Papers, 238.
 Wallcot, Ancestral name, 419.
 War-horse, 1809, 417.
 War of 1812, 117.
 Warsaw, and Warsaw, 50.
 Washington's Obsequies, Dec. 14, 1799, 413.
 "Walking the Chalks," 242.
 "We Are Coming Father Abraham," 390.
Veebe's Travels, 133.
 "What hath God wrought! 151, 185.
 What is an iota? 328.
 Whigs, 237, 290.
 W, history of the letter, 86.
 Who were the Doctrinists? 329.

Wide-Aakes, 237.
 Wigwam, 237.
 Wild-Cat, 237.
 Wild-cat wells, 128.
 William the Taciturn, 217.
 Williams, Name, 433.
 Wind instruments, sound produced, 162.
 "Winter," poem on, 182.
 Wire-Pulling, 237.
 Witch of Agnes, equational curve, 215.
 Wolverines, 237.
 Woman's Rights Party, 237.
 Wonders of the world, seven modern, 198.
 Wooden-Horse, 237.
 Woolly-Heads, 237.
 Word "Catholic," 296.
 Words for title-pages, Southey's, 139.
 Words, words, words, words, 336.
 Wreckers, 237.
 Writing Materials, 238.
 Writings of Jesus, 180.

Xerophagists, 391.

Yanks, 237.
 Yaukees, 237.
 Yankee Doodle, 237.
 Yellow Fever, 1799-1800, 414.
 "Ypellanti," 405, 406.
 Ypellanti, Mich, origin of name, 215.

Zodiac, Signs of, 42, 115.
 Zoroasterism or Zoroastrianism? 393.

&, Ampersand, 166.

(=), Ancile, 179.

Names and Noms de Plume of Contributors.

- A. B. C., 244. *Abulcasis*, 252. Adams, Bessie Lenore, 300. Admirer, 343, 412. Agnostic, 253. A. H. H., 391. A. L. G., 254, 306. A. L. F., 362, 264, 324, 400. Anonymous, 344. Anxious, 299, 300, 335, 343, 402. Avicenna, 252. A. W., 248, 253, 254, 306, 307, 429, 430.
 B., 391. B. C. M., 250. Beach, Silas B., 257. Belgrade, 248, 412, 435. Bengough, Thos., 440. Berry Stephen, 438. B. H. K., 328. Bolton, H. Corrington, 241. Bond, William E., 395, 402, 433. B. U. R., 404. Burleson, B. F., 271, 370. Burnett, Chas. H., 395, 434. Burns, Sarah E., 295, 320, 329.
 Cabot, Charles, 253. Catechuman, 252. Caliban, 264. Chester, 344. Clark, G. S., 251, 344, 373, 394, 395, 431, 433. Craftsman, 395, 430. Curious, 343. Cuttle, Alex., 246.
 Davidson, Geo., 251. Didymus, Thomas, 374. Dill, Chas. G., 251. Djarfar, 243, 232, 281, 286, 330, 337, 339, 409. DeMille, J. H. H., 262. D., 369. D. M. D., 328, 414. Draculy, Plato E., 248. Drummond, J. H., 404. Drury, D. M., 250, 299, 395, 437. D. T. T., 343.
 E., 251, 305. Eaton, Perry A., 245. Edward, 320. E. M. E., M. D., 294. Epstein, E. M., 404, 407. E. T. Q., 262, 400, 406.
 F. G. S., 248. F. J. P., 344, 392. Fry, G. W., 377.
 G., 343. G. M. L., 249, 251, 307. Goldsmith, Forest K., 335. G. O. U., 412. Gould, S. C. 345. Green, Mr., 343.
 Haman, 373. H. H. J., 313. Helen, 432. Henderson, Joel, 245, 295. Henrietta, 253. Hill, Arthur, 439. H. M. B., 245. H. M. T., 245. Howell, Geo. R., 295, 302, 410. Hunter, James, 315. H. W. H., 304.
 Investigator, 395. Inquirer II, 261, 307, 312. J. J. J., 344, 393, 397, 400, 432, 438. J. K. S., 270. Jonas, 344, 380. John, 212, 377. Johannes, 412. Jonathan, 310, 340, 343, 373, 393, 406. Jones, Thos. M., 395. J. Q. A., 300. Josef, 284. J. W., 395.
 Kay, John, 299. Kimball, Wm. H., 302. Logos, 254, 305, 329, 338, 405. L. L. M., 360. Lowe, Annie E., 399. Lowell, 344, 391.
 Mackey, Millie M., 300. Mason, 250. Masceilles, Chas., 328, 369. M. F. K., 345, 380. Moore, John W., 014. Mot, 412.
 Neophyte, 254, 306, 319.
 Observer, 293. Orr, Forest C., 299, 324.
 Painter, 248. Parsons, J. D., 278. Patten, Annie W., 299. Peter Pence, 248. Philologos, 343, 294, 315. Philos, 249, 300. Plautus, 371. P. M. C., 380, 392, 393, 402, 428, 435. Post, Mary A., 253.
 Quad Scis Nescis, 269.
 Reader, 438. R. K. D., 245. R. K. M., 348. Rose Croix, 240. Ruggles, J. Francis, 251.
 Searcher, 245, 294, 344, 379. S. C. G., 405, 407, 427. Seeley, Maggie E., 300. Shields, J. P., 440. Southwick, A. P., 361, 404. Spencer, Geo. J., 300. Smith, Andrew, 253. Smith, Walter H., 286. Stonehenge, 251. Stowell, T. P., 411. Stratford, Charles J., 418. Student, 249, 308, 241, 344, 373, 375, 412. S. W., 391.
 Theophilus, 259. Thomas T., 432.
 V., 392. Veritas, Victoria, 342. Videx, 250. W., 251, 254, 307, 391, 395. Waggoner, M. O., 223, 291, 405, 412. Waldo, 436. Want to Know, 412. Webster, 254. Webster, J., 249. Webster, N. B., 279, 430, 431. W. E. C., 299. W. E. M., 253. Westcott, W. Wynn, 296. Wilder, A. M. D., 286, 290, 291, 308, 323, 405, 434. Williams, John, 398. Willie, 295. Wood, H. A., 396, 430. Worth, Philip, 253.
 Xenophon, 289, 412. X. Y. Z., 254, 286, 290, 308, 325, 339, 340, 341, 404.
 Young Man, 228, 344.
 Z., 284, 307, 320.

Geometrical Axioms.

1. Things that are equal to the same thing, are equal to each other.
2. If equals be added to equals, the sums will be equal.
3. If equals be subtracted from equals, the remainders will be equal.
4. If equals be added to unequals, the sums will be unequal.
5. If equals be subtracted from unequals, the remainders will be unequal.
6. If equals be multiplied by equals, the products will be equal.
7. If equals be divided by equals, the quotients will be equal.
8. The whole is greater than any of its parts.
9. The whole is equal to the sum of all its parts.
10. All right angles are equal.
11. Only one straight line can be drawn between two points.
12. The shortest distance between two points is a straight line.
13. Through a given point, only one line can be drawn parallel to a given line.

Geometrical Postulates.

1. A straight line can be drawn between any two points.
2. A straight line may be prolonged to any distance.
3. If two lines are unequal, the length of the shorter may be laid off on the longer.
4. A line may be bisected ; that is, divided into two equal parts.
5. An angle may be bisected.
6. A perpendicular may be drawn to a given line, either from a point without, or from a point on the line.
7. A line may be drawn, making with a given line an angle equal to a given angle.
8. A line may be drawn through a given point, parallel to a given line.
9. A circle can be described, having its center at a given point, and with any given radius.

THE BIZARRE.

NOTES QUERIES

IN

*HISTORY, FOLK-LORE, MATHEMATICS,
MYSTICISM, ART, SCIENCE, Etc.*

"Go on, and the light will come to you." — *Jean D'Alembert.*

VOL. IV. JAN.-FEB., 1887. NOS. 1-2.

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CONDUCTED AND PUBLISHED BY
S. C. & L. M. GOULD,
218 MANCHESTER, N. H.

Entered as second-class matter at the Post Office, Manchester, N. H.

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WITH ANSWERS.

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 "It is more blessed to give than to receive."—JESUS SON OF JOSEPH.

VOL. VI.

JANUARY-FEBRUARY, 1887.

Nos. 1-2.

Political Epithets, Mottoes, Etc.

[Communicated by M. O. WAGGONER, Toledo, Ohio.]

ABOLITIONIST. One who favors the emancipation of the colored slaves.

ALL QUIET ON THE POTOMAC. Expression used during the rebellion of 1861 as to the condition of the army.

ALMIGHTY DOLLAR. The conceded *power in politics* in this country.

AMERICAN BASTILE. Prisons containing the "Prisoners of State," during the southern rebellion—so called.

AMERICANISM. A principle established during the American Revolution that Americans should rule America. Washington ordered: "Let none but Americans be but on guard tonight." And at a later date, Thomas Jefferson "Wished an ocean of fire rolled between the Old World and the New." Another principle of that period was—"Eternal vigilance is the price of Liberty." And let the American be vigilant that the *alien* seize not his birth-right. An opposition to the naturalization of foreigners until they have resided in this country twenty one years.

AMERICAN KNOW-NOTHINGS. A secret organization established in 1853, in New York City by Ned Buntline; with signs, grips, and passwords, such as "How are you, Sam;" "What's the time?" "I don't know," etc.; with the following as their chief governing principles:

1. Repeal all naturalization laws.
2. None but native Americans

for office. 3. A pure American common school system. 4. War to the hilt on Romanism; and in various ways the principles were manifested among them as follows:

AMERICA for the Americans, and Americans shall rule America. We have had enough of "Young Irelands," "Young Germanys," and "Young Italys;" the sons of the soil shall rule the soil. We have had enough of insolent alien threats to suppress our "Puritan Sabbath," and amend the constitution, etc.

AMNESTY OATH. Sometimes, by the "confederates," called Dam-nasty Oath, which they were compelled to take to reinstate themselves as citizens of the United States, and which Jefferson Davis emphatically refused to take.

ANNEXATIONIST. One favoring annexation of new territory to the United States at any hazard.

ANTI-FEDERALIST PARTY. They who opposed in 1788 the adoption of our constitution, which at that time was designated the Federal Constitution.

ANTI-MASON. Opposed to Freemasonry, and one of a political party organized about 1825.

ANTI-SLAVERY PARTY. They who were hostile to slavery.

AVAILABLE. We would prefer "Henry Clay" for President, but we think he is not *available*, and it has since become the watchword among the wiley politicians.

BALLOT-BOX STUFFING. Fraudulent manipulation of the ballot box.

BARN-BURNERS. The young democrats of New York State who, in former times, opposed old Hunkerism. The story of the old Dutchman who burned his barn and other buildings to rid himself of rats, gave rise to the name.

BEAST BUTLER. A nickname given Gen. B. F. Butler by Brick Pomeroy.

BETWEENITY. A politician undecided; — "on the political fence."

B'HOYS. Originated in New York City in 1837 among the young whigs.

"Then come every friend of the Union,
Come old men, and come ye b'hoys,
Let's go it for Old Rough and Ready,
Who never was scared at a noise!"

BIG-DOG-IN-THE-TAN-YARD. Nickname for bullying, and boss politicians.

BLACK JACK. Nickname for John A. Logan. Also, yellow fever.

BLACK REPUBLICANS. Those who favored the war of 1861 for the suppression of slavery.

BLEEDING KANSAS. So called from troubles growing out of political differences on the slavery question.

BLUE-BELLIES. Boys-in-Blue, so called by confederate soldiers.

BLUE-BOOK. Book with names of United States officials and salaries, similar to English Red-Book.

BLUE-LAW STATE. Connecticut.

BLUE LAWS OF NEW ENGLAND. Referring chiefly to the odious code of Connecticut passed in 1650.

BLUE LIGHTS. Connecticut Federalists, who were charged with treason; as is said, very unjustly.

BLUE-SKINS. Applied to those who advocated the Blue Laws of Connecticut.

BOLTERS. Those who bolted from their party allegiance on account of "soreheadism," after the manner of mugwumps.

BOODLE. Cash collected for electioneering use.

BOODLERS. Those who dispense the "boodle."

BORDER-RUFFIANS. Those who endeavored to force slavery into Kansas.

BOUNTY-JUMPERS. Substitutes for drafted soldiers who received bounties and deserted—as a business!

BOURBON DEMOCRATS. Those with a mixture of the old Jacksonian and Southern-ocracy.

BOYS-IN-BLUE. Those who wore blue in opposition to "Butternut."

BREVET HELL. Summary mode of disposing of obnoxious prisoners, or parties, in the last war, called consigning the scallawags to a *Brevet Hell*. A lynching on the sly.

BUCKTAILS. Party connected with "Tammany" New York 1815, opposing D. W. Clinton, and who wore a portion of a deer's-tail in their hats.

BUNCOME OR BUNKUM. A Bully-ing style of electioneering.

BUNGTOWN COPPER. A coin made at a town called Rehoboth in Massachusetts, but nicknamed "Bungtown."

BUTTON-HOLING. A peculiar mode of electioneering by smiling, shaking hands, and taking one by the *Button-hole*.

BUTTERNUTS. Those who wore butternut in opposition to the "Boys in Blue."

CABOODLE. Originated in the days of Sam Medway, in Hamilton County, Ohio, regarding election districts, when the *Ohio State Journal* said that *the whole caboodle* will be governed by dictation of Ohio Sam.

CAPITAL AND LABOR. Much used of late in connection with Tariff discussions and by the labor organizations in connection with labor strikes.

CARPET-BAGGERS. Northern fellows, *carpet-bag* in hand, in the south after the rebellion ; searching for a lucrative lay-out.

CATAWAMPOUSLY, OR CATAWAMPTIOUSLY. Fred. Douglass said 'twas cowardly to fear being *catawampously* chawed up by 3000 slave-holders.

CAUCUS. Preliminary meeting prior to meeting in convention to nominate candidates.

CHANGED HIS BASE. A polite and evasive way some Generals had of reporting his unfortunate forced retreat.

CHICKEN PIE. Southern term growing out of the necessary expenses to obtain from legislators and newspapers desired legislation, and the publications desired as popular opinions.

CLEAN TICKET. He went the *clean ticket*—no split.

COALITION. A union of two party factions for the purpose of accomplishing what they failed to do separately, and to divide the spoils after the battle.

COCK-TAIL. A beverage used during election campaigns.

CONFEDERATE MUSIC-BOX. An inferior-made confederate army wagon made of unseasoned timber, which creaked loudly in its joints.

CONGRESS. Governmental Legislatures. Continental Congress 1774. Federal Congress 1781. Congress of the United States first met 1789.

CONTENTED LICKSPITTLE. Northern abettors of slavery, frequently called dough-faces.

CONSCRIPT. Brought in under the draft.

CONTINENTAL DAMN. Term applied to the old continental money.

CONTRABAND. Originally called a Nigger, then Negro, Darkey, Unbleached American, a *contraband*, and now Colored-man or Freedman.

COOPING VOTERS. Confining under various pretences a number of fellows who vote for "boodle" and wining and dining them till they "vote" according to wishes of the "*Coop-manager*."

COPPER-HEADS. Democrats who hissed at violent Union Men, of all parties, but favored the secessionists.

CORRUPTION. A lubricating oil used by politicians, chiefly to grease the government machinery.

COTTONOCRACY. Applied to wealthy New England cotton manufacturers, also to the wealthy Southerners.

COUPONS. The valuable, as well as ornamental, appendages attached to bonds, especially Government bonds.

COWBOYS. Tory partisans during American Revolution who favored the American Cause.

CREDIT MOBILIER. A political speculating organization of unsavory fame, whose members, for the purpose of disposing of the stock (chiefly among members of Congress) claimed it to be a grand plan to advance the Mining and Railroad interests. But the result to many, who invested in the stock was not only politically and financially, but morally discouraging.

DARK-HORSE. When in convention, the candidate considered the most "available" and popular fails to receive the nomination, and some one, not before mentioned, as a candidate, is sprung in upon the convention and is nominated, he is called the *dark-horse*.

DARNATION. A substitute for *Damnation*, employed by defeated religious politicians.

DOUGH-FACES. Contemptuous epithet applied to northern abettors of negro slavery; also to southern men false to the principles of southern slavery.

DYED-IN-THE-WOOL. In 1847 Democrats claimed General Taylor as a democrat *dyled in the wool*.

DEAD-LOCK. When the members of a convention, assembly, etc., fail to elect either or any candidate on account of a tie-vote, or fail of a majority-vote, and this voting continued from day to day, or from week to week, neither party conceding or yielding to the other — this is called a *dead-lock*.

EAGLE. A twenty dollar gold coin; also our National Emblem.

EMANCIPATION PROCLAMATION. Issued by Abraham Lincoln as a war necessity in 1862.

EMPIRE STATE. New York on account of the enterprise of its people is called the *Empire State*.

ENGAGE. All military and civil officials in Rhode Island, instead of swearing to perform the duties of their office, *engage* so to do.

ENTHUSE. To fill with enthusiasm; the people did not *enthuse* sufficiently to elect our candidate.

FEDERAL. The United States compact between several States and union of same ; each surrendering part of its power to the central authority.

FEDERAL CURRENCY. The decimal United States legal currency.

FEDERALISTS. The friends of the constitution at its formation and adoption.

FREE-TRADE PARTY. Those opposed to a tariff on imported goods of all kinds, and in favor of a repeal of what is commonly called a protective tariff.

FIAT MONEY. The United States Greenback and other currency issued on the credit of the United States instead of a specie basis.

FIGHT IT OUT ON THIS LINE. A common expression used at commencement of Rebellion among the Northern leaders.

FIRE-EATERS. Extreme pro-slavery advocates in the south, and the ultra-abolitionists of the northern states.

FRACTIONAL CURRENCY. United States paper currency of less denomination than one dollar.

FREE-SOILERS. Those in favor of preventing the admission of negro slavery into territory that has not been admitted into the Union, and never had slavery established within its borders.

GRANITE STATE. New Hampshire,—because of such quantities of *granite* therein.

GREENBACKS. United States legal tender notes, issued soon after the breaking out of the late civil war ; their distinguishing color being green.

GREENBACKERS. A party advocating the sole issue and use of Greenbacks as currency of the United States, as a money and making it a legal-tender for all purposes—organized in 1876, and nominating and voting for the great and good man — Peter Cooper — for President.

GERRYMANDERING. Unfairly dividing a state into representative districts by the party power, to the detriment of the other party. First done in Massachusetts in 1811.

GO THE WHOLE HOG. The democrats have probably carried their whole ticket, for they always *go the whole hog*, and never scratch a ticket—1844.

GUBERNATORIAL. Referring to government or a governor.

GUERRILLAS. Marauding murderous bands of Bush-whackers who were frequent throughout the south during the recent rebellion. Derived from Spanish—*guerra* (war).

GULF STATES. Those bordering on the Gulf of Mexico, viz., Florida, Alabama, Mississippi, Louisiana and Texas.

HALF-BREEDS. Those who sustained President Garfield in his course in connection with Roscoe Conkling and his *stalwart* action in resigning his seat in the Senate with his co-worker Platt.

HARD-SHELL DEMOCRATS. A political party of 1853. Hard-shells, who favored and embraced the Cass-Hunkers of 1848, and the Softs, such Hunkers as Marcy and Seymour.

HARD TACK. A hard biscuit made for the soldiers in the late war—and they were often, very often—*hard* enough.

HAWKEYE STATE. Iowa. So-called after an indian chief of that name.

HEAD-RIGHTS. Land grants by Texas to *Heads* of families to promote emigration.

HICKORY UNIONISTS. A class of *neutrals* in the border States who opposed the military imprisonment of suspected southern sympathizers.

HIGHER LAW. Used by W. H. Seward in a political speech on the question of Slavery in the territories; and since frequently used by abolitionists.

HINDOOS. Name given to the Know-Nothings, because Daniel Ullman their candidate for president, was charged with being a native of Calcutta.

HONEY-FOGLE. It was said in 1858 by a facetious political writer that if W. H. Seward became President, he would so beautifully *honey-fogle* both north and south that they would pronounce him one of the best Presidents we ever had.

HOOSIER. A native of the State of Indiana, on account of that State being called the Hoosier State.

HUNKERS. Conservative wing of the old Democracy of New York, and opposed to the young democracy, or Barnburners, or old Hunkers.

INDIAN LIQUOR. A villainous liquid compound, sold to the government Indians by government agents, to pave the way to good bargains.

IRON-CLAD OATH. Under the fourteenth amendment to the constitution this oath is administered to those taking office under national or State governments.

JAY-HAWKER. A murderous Marauding class of Tramp-bummers, who did much damage in 1860 in connection with the Kansas slavery troubles.

JEFF-DAVIS BOX. (See Confederate Music-Box).

JUDGE LYNCH. An unlawfully organized court, or tribunal of self-constituted authority, for the purpose of making sure work in the disposal of criminals and outlaws generally.

JUMPING A CLAIM. A western expression for the second or third fellow who by stealth, or force, drives off the first claimant and Squatter.

KEYSTONE STATE. Pennsylvania; thus called on account of its being the central state when the constitution was formed.

KIDS. A name given latterly to the young men who in elections clanishly organize in clubs for the purpose of pushing their pet *kids* through and elect them.

KNOW-NOTHINGS. (See American Know-Nothings).

KU KLUX KLAN. A title given to the desperadoes known by that name. It is said the name originated as follows: A Mexican ruffian on the Rio Grand, by the name of Nal. K. Xulkuk, reversed the spelling of his name, to produce the well known name of this gang. Other origins of the name have been given, and are as likely to be correct.

LECOMPTONITE. One who favored the pro-slavery constitution for Kansas, originated at Lecompton, Kansas.

LIBERTY CAPS. The well known head-gear on the Goddess of Liberty. This *Liberty Cap* alludes to Gessler's cap which Tell refused to do homage to, and which led to the freedom of Switzerland.

LOBBY. The *Lobby* rooms in the immediate reach of Congress at Washington, have become the most important headquarters in the Capitol building, and require and receive a large amount of attention of sharp Lobbyists, both ladies and gentlemen. As to the moral status of this department at Washington we will not elaborate.

LOCO-FOCO. Fiery-Ultra-Radicals, originating in Tammany Hall, New York City, in 1834, under the following circumstances: Some dissenters on the occasion extinguished the lights, when the opposite party drew from their pockets their loco-foco cigar lighters and relighted the gas, the radicals proceeded with their business, having it their own way.

LOG-CABIN AND HARD-CIDER PARTY. Known as the old Tip-and-Tyler party of 1840.

LOG-ROLLING. Peculiar political manipulations, slyly practiced, to bring about the nomination or election of favorite candidates, or the passage of certain special laws in the way of change off, — you-vote-for-me and I-will-vote-for-you style.

LONG-HEELS. Name applied to those of our Union soldiers who were wounded in their heels while fleeing from the rebels at Bull Run and the Winchester raid. Also applied to the uncompromising advocates of abolition of slavery prior to and during the war, and encouraged and urged negro-suffrage or the right of suffrage to the Africans, whom it was claimed indulged in *heels* too long for voters.

LONE STAR STATE. Texas, who sports a single *star* on her *flag* and *seal*.

LOYAL LEAGUE. *Loyal Leagues* and *Union Leagues* were established in all the free States as stanch supporters of the Union cause, from 1860 to the close of the war.

LYNCH LAW. (See Judge Lynch).

MANIFEST DESTINY. A high-sounding statement often used to cover the carrying into effect designs and plans highly detrimental, which led our government into trouble costing many men's lives settle; words greatly abused.

MASON AND DIXON'S LINE. Running along the parallel of latitude 39 degrees 43 minutes, 26 degrees 3 minutes, separating Pennsylvania and Maryland, drawn by two distinguished Englishmen, astronomers and mathematicians, by the name of Charles Mason and Jeremiah Dixon—commencing their work December 1763 and ending 1767; placing stones at end of each 5 miles; each having on one side engraved the arms of Lord Baltimore and on the other side arms of the Penns, and the intermediate miles were also marked with smaller stones on one side of each were engraved M. and the other P. All these stones were brought from England. This is not however, as usually understood, the line separating slave from free states; 36 degrees 30 minutes is the compromise line of 1820.

MASTERLY INACTIVITY. From John C. Calhoun, who made use of the expression in connection with the proposed annexation of Cuba and charged our government with *masterly inactivity* in not sooner bringing about such a result.

MISCEGENATION. Should be *miscegeneration*, a mixing indiscriminately of the races—amalgamation, originating from and on account of the miscegeneratic condition of the South prior to the late war.

MONEY-BAGS. Appropriate name as recently applied to modern members of the United States Senate.

MONROE DOCTRINE. This declared that the American continent, though not yet occupied by settlers, should be no longer open to European powers, and virtually declared that any extension of the system of governments, as it prevailed in Europe, to any part of this hemisphere, would be looked upon as "dangerous to one's peace and safety."

MOSS-BACKS. The old-time Bourbon Democrats that never vote any one but a straight old Jackson Democratic ticket.

MUD-SILL CLUBS. Originated among the mines and working-men in California as political factions in 1858.

NATIVE AMERICANS. Originated in 1843 on account of a speech by Bishop Hughes advocating the separate plan in schools organizing a society of foreign voters to carry out their plans. This was the first known attempt, in this country, to get up such an organization. On account of this act, on the part of Hughes, the *Native Americans* organized with their extreme views, requiring the residence of all foreigners in this country 21 years prior to naturalization, which extreme views caused its speedy demise.

NATIONAL PARTY. Originated on February 22, 1878, in Toledo, Ohio, and only existed for a short time as a party, being a secret organization with signs, grips, and passwords, was as short-lived as was the Know-Nothings and Sag-Nichts.

MUGWUMPS. Many elaborate articles have been written recently regarding the real origin of this, and much speculation indulged in, but nothing very satisfactory has been arrived at further than the recent application of the word to the *Sore-headed* condition of a large number of republicans of long standing in their party who manifested a positive opposition to the action of their party in the nomination of Blaine in 1884, and in furtherance of their feelings of opposition to same, they formally and practically bolted the party and announced themselves emphatically engaged against Blaine, and took the field in favor of Cleveland, as illustrated by the work done on the stump by Carl Schurz and Henry Ward Beecher, and journalistically, through Harpers' Weekly and Puck with their pens and pencils against the election of Blaine and Logan.

NIGGERHEADS. A class of hot-headed Unionists were called *Nigger-heads* by a certain class of democrats who were of a conservative temperament and belief.

NON-SLAVE-HOLDING. All States north of Mason and Dixon's line were known as *non-slave-holding*.

NORTH AMERICANS. The northern faction of the know-nothings.

NORTHERNER. A citizen of northern or non-slave-holding States.

NULLIFICATION. John C. Calhoun at the head of the South Carolina Free Trade Party in opposition to the Protective Trade Party, proposed to nullify the tariff so that they could enjoy the benefits of Free Trade with Great Britain in cotton which of course was equivalent to open rebellion by the trampling upon laws in force, and openly declaring a *nullification* of such laws as they disliked.

NUTMEG STATE. Connecticut, on account of the story stating that Connecticut Yankees manufactured wooden nutmegs for importation.

OLD DOMINION. Virginia was the original name of all the original colonies in America, and consequently called the *Old Dominion*.

OLD HICKORY. Gen. Andrew Jackson's nickname was Old Hickory.

PAINTING THE TOWN, OR CITY, RED. Big jollification over a victory after election, and a very free use of tangle-foot-liquid.

PALMETTO CAPITAL. Columbia, the capital of South Carolina, from the State representing the Palmetto.

PALMETTO STATE. South Carolina.

PINE TREE STATE. Maine, from its pine forests.

PIPE LAYING. Originated in the electioneering campaign of 1848, from the means employed by the parties to bring to the polls illegal voters, which was considered of a very fraudulent character and called *pipe-laying*.

PLATFORM. Code of principles adopted by a political party as a basis for electioneering through the campaign, and supposed to represent the true principles of the party, if they succeeded in electing their candidates.

POLITICAL BENDER. Drunken spree to celebrate an election victory.

POLITICAL BOLTERS. (See Mugwumps).

POPULAR SOVEREIGNTY. That the people shall rule, and the people form the constitution under which they live; in contra-distinction to congressional intervention.

PROHIBITIONISTS. A party opposed to the manufacture and use of all kinds of intoxicating drinks.

PROTECTIVE TARIFF PARTY. Those who oppose Free Trade, and advocate a tax or duty on all imported goods as an alleged means

of protecting and encouraging home labor and home manufacture of all articles of agricultural products as well.

PRO-SLAVERY. In favor of slavery.

RADS, OR RADICALS. Northern Unionists, or abolitionists.

REBS, OR REBELS. Southern Secessionists — and whigs of the war of 1776.

RED DOG MONEY. Name of certain bank-notes in New York State prior to the rebellion that had a large red stamp printed on the back of each.

REPUBLICANS. An old political party name, but latterly the name of the one organized in 1856, with a code of principles opposing the extension of slavery, commonly called by their opponents *Black Republican*.

ROORBACK. Originated during political campaign of 1884 on account of extravagant, political party lying, and since, such stories are called "Roorbacks" from the celebrated "Baron" Roorback.

ROUGH-SKINS AND RANTERS. Clubs of the worst kind of rowdies organized in Baltimore from the fag ends of the old American Know-Nothings, during the political campaign of 1857.

ROUGH AND READY. Nickname, given Gen. Zach. Taylor

SAG-NIGHTS. An organization of foreigners established in 1856, to counteract the operations of the Know-Nothings. Chiefly German, with signs, grips, and passwords; with many slang expressions similar, but conflicting somewhat with the general meaning of Know-Nothings, but really amounting to national sectionalism.

SAM. Nickname given to Know-Nothings, and other similar parties.

SECESSIONISTS. Southern seceders from the Union and those who fired on Fort Sumter after the secession, formerly of most of the slave-holding States.

SHOULDER-HITTER Originated in California in 1858 and caused by the Bullying-ruffians that infested the polls at elections in San Francisco and intimidated the voters.

SLANG WHANGER. One who indulges in political slang and ranting style of language. Parson Brownlow was considered and called a *slang whanger* in 1857.

SLAVEOCRACY. The wealthy leaders among the southern seceding slave States.

SKEDADDLERS. "Scalawags" who when about to be drafted, both north and south, got out—*skedaddled*.

SKEEZICKS. An unpopular or unknown political orator who makes arrangements with parties to call him out for a speech at political mass-meetings. Originated in Indiana, in 1858.

SOFT-SHELL DEMOCRATS. Conservative faction of New York Democrats; name was dropped in 1858 by resolution; also the names Hunkers, Barnburners, and Hardshells.

SOUTH AMERICANS. Name of the southern portion of the Know-Nothing party, or that portion favoring slavery.

SPLIT. Difference of opinion arising in a political party; such as existed in the Whig party in 1848 was called a *split*.

SPLIT TICKET. Erasing names in a ticket and inserting others on what is termed a trade of candidates is called voting a *split-ticket*.

SPOILS. The lucre, and the official honors, arising from official benefits to the winning candidates in elections. Gen. Jackson said: "To the victors belong the spoils."

SQUATTER SOVEREIGNTY. The long disputed question connected with Kansas troubles. (See Popular Sovereignty).

STALWARTS. Those in and out of Congress of the Republican Party, who supported Roscoe Conkling in his violent and unprecedented opposition to Garfield.

STAMP ACT. Passed by the English government in 1765, and was one of the chief causes of the American Revolution.

STATE RIGHTS. Asserted rights of individual States as opposed to authority of the Federal Government.

STRAIGHT-OUTS. As the straight-out Whigs of 1856; straight-out Republicans of 1857; and straight-out Abolitionists and Democrats who voted the party ticket without a scratch, right or wrong.

STRAW-BAIL. A Peter Funk security on official bonds often palmed off by official political office sharks, through the assistance of others of the same stripe, and usually known as party wire-pullers.

STRIKERS. Too well known these times to require any explanation, and have been in the manufacturing districts for the last thirteen years.

STUMP ORATOR. A person who delivers a political speech from any temporary stand, box, or barrel, in an extemporaneous off-hand style.

SUCKERS. Nickname of the first residents of Illinois, of whom it is said when they were thirsty and could not get "corn juice," would

suck the water from the crab or crawfish holes in the prairies of that State—hence the name of *Sucker* State.

SURPRISE CANDIDATE. One who is sprung upon a convention without any previous acquaintance or talk as being a candidate. But of late such a candidate is known as the "dark horse."

TANGLE-FOOT. A liquid extract from corn, rye, or potatoes, taken by politicians occasionally as a sort of encouraging element, and when indulged in too freely, sometimes impedes the graceful movements of their lower limbs—hence the name Tangle-foot, or Tangle-leg.

TEXAS. The State of Texas was named after a peculiar tribe of Indians located in that State called The Texas or Tejas tribe of Indians; the letters x and j being by them considered the same. This tribe of Indians lived for a long time in the valley of the Rio-Grande until exterminated by a more savage tribe. By some it is claimed that the literal meaning of the word being *tiles*, that may be the true emanation or root of the word.

TORY. One who strongly supported the kingly and royal ecclesiastical party, and directly opposed to Whig; really, of Irish origin and signifies a savage.

TRADE DOLLAR. Silver dollar, coined under Act of Congress of January 12, 1873, and contains 420 grains, expressly for export to China and India.

TRADE WINDS. Breezy dissensions between Protectionists and Free Traders.

UNCLE SAM. A familiar cant name applied to the United States government, sometimes called Brother Jonathan, the latter of which emanated from old Governor Jonathan Trumbull of Connecticut, as follows: during the financial struggle of 1776, the common saying was "well, we must call on Brother Jonathan"; meaning Gov-Trumbull, who was wealthy as well as willing.

UNCLE SAM'S CRIB. The United States Treasury.

UNDER-GROUND RAILROAD. An established route from the line of the slave States through Ohio, over which the Abolitionists run the slaves to Canada.

UP SALT RIVER. An imaginary trip taken often by defeated political aspirants.

VERMONT. A State in New England so named January 16, 1777, from *verd*, green, and *mont*, mountain.

VIGILANCE COMMITTEE. Citizens who volunteer to defend the rights and peaceful quietude of the people in any locality where the regular peace-officials neglect to do so.

WALKING-PAPERS. What an official receives when his political party suffers defeat, when under the old General Jackson rule, "To the Victors belong the spoils"; but under civil service it is *slightly* changed.

WHIGS. Definition hard to give—Whig and Democrat really meaning *outs*, and *ins*, in the early stages of this country; the Whigs, however were the party in favor of Protective Tariff, National Banks, &c., and Democrats were in favor of Free-Trade, no connection of the Government with banking, &c. This about 1830.

WIDE-AWAKES. Republican organizations who wore a peculiar shoulder-cloak and carried torches during the political campaign commencing 1860.

WILD-CAT. A Bank in Michigan in early days had the picture of a Panther in vignette on its notes and with appearance of a *Wild Cat*. This bank afterwards failed and the bills of the same were called Wild-Cat money. The "Blue-Pup" money had a similar origin to the "Red-Dog" money of New York.

WIRE-PULLING. (See Log-Rolling, and Pipe-Laying).

WOLVERINES. Inhabitants of Michigan, which State took this name from the innumerable prairie wolves.

WOMAN'S RIGHTS PARTY. Those in favor of Women having *all* the rights of Men, particularly those of voting and holding of any and all offices.

WOOLLY-HEADS. Name of negroes and Anti-Slavery politicians.

" They're mighty bright, those woolly-heads,
They think they find a prize,
If they can only pull the wool
O'er other people's eyes."

WOODEN-HORSE. A secret political society organized in the South in the interest of slavery and the southern cause generally.

WIGWAM. Name given to a capacious temporary building, erected especially for the convenience of political gatherings in election seasons.

WRECKERS. Baltimore election rowdies.

YANKS. A name applied to northern soldiers in the south by the confederates.

YANKEES. Generally applied to citizens of New England; but foreigners apply the name to the citizens all of the United States generally.

YANKEE DOODLE. A tune;—about the origin of which, much has been said and written.—Let the origin be what it may, there is no question about the inspiring effect of the tune, when sung, or played, in the hearing of a *Yankee*.

All About Writing Materials.

Let us now for a moment consider the materials used in the infancy of writing, as well as in its progress toward its maturity.

The writing of the ancient Hebrews and the Egyptian hieroglyphics were cut in stone with bronze chisels. The arrow-headed inscriptions of the Babylonians, Medes, Persians and, Assyrians, when carved in rocks, were cut with bronze chisels. The same characters on bricks may have been made when the material was in a plastic state.

Stone, lead, brass, ivory and wood were all writing materials, and required pens with sharp and hard points.

In later times, leather was used by the Jews; linen, silk, skins of serpents and fishes by the Greeks, and parchment by the Romans.

Papyrus was in early use by the Egyptians, and eventually found its way among the European nations, where it continued in general use until about the end of the seventh century, and was then superseded by parchment and vellum, except that for a time it was used for correspondence. Its use continued by the Popes until the twelfth century.

Parchment is said to have been used by Emmenes, King of Pergamos, two and a half centuries before the Christian era.

From the beginning of the eighth century until a comparatively recent period, parchment and vellum were most highly esteemed, and oft times difficult to obtain in sufficient quantities by the nations of Europe as well as portions of the East.

The natives of India, at the present day, write on the palm leaf with a stylus resembling a long darning needle. In writing they use the forefinger of the left hand as a writing desk, around which they fold the leaf upon which they write.

The Arab uses a similar instrument, with which he inscribes his signature on the shoulder blade of a sheep.

Of pens we may enumerate in the order of their use the chisel, the reed, the quill, the gold, and the steel pen.

The mode of using the chisel was but little like that of the modern pen. The stylus was a dangerous instrument, not unworthy of its progeny the Italian stiletto. It was by the order of the Emperor Julian that Cassianus, a refugee bishop who had set up a school at Rome, was martyred by his scholars with the stylus, and Cæsar, in full senate, seized and pierced the arms of Cassius with his stylus.

The monks of the Middle Ages employed both reed and quill pens, as they had need for broad or narrow lines.

The calamus, or reed pen, is still used in its native place, Egypt, but better reeds are found on the Persian Gulf, where they are gathered in the month of March and immersed in fermenting manure for a period of six months. This coats them with the yellow or black varnish for which they are prized.

The first mention of a quill pen is by St. Isidore, of Seville, who lived about the middle of the seventh century. It gradually came to be the principal instrument of writing, and its use continued to be general until superseded by the steel pen about a half century since.

The first metal pen, properly so-called, mentioned in history, was the gold pen of the famous writing master, Peter Bales, of Queen Elizabeth's time.

The first steel pen was manufactured in 1803, since which time constant improvements have been made until now its use is nearly universal. In China a hair pencil is used with India ink.

The diamond-pointed pen, although usually ranked as a modern combination, seems to have been known away beyond the memory of the oldest inhabitant, for the prophet Jeremiah uses the expression, "written with a pen of iron and with the point of a diamond."

Of ink, a poet has said :

" Hard that his name it should not save,
Who first poured forth the sable wave. "

The most ancient ink, Sepia, has been found in the solid rock where it had remained for a hundred thousand years and yet possessing all the qualities of the cuttle-fish of to-day.

The Spartans used Sepia for making inscriptions on sarcophagi.

The ink of the ancients was usually a preparation of lampblack and a gum. Dioscorides gives the proportions, 3 of soot to 1 of gum. This was formed into cakes or rolls and tempered with water when it was to be used,

In the excavations at Herculaneum an inkstand was unearthed which contained an ink perfectly preserved.

The Roman emperors used a very expensive red ink in writing signatures, and its use was prohibited to all others except that their sons if of adult age could use it; otherwise they must have recourse to green ink. The ancient Romans frequently complained that their ink did not flow freely, and they sometimes gave vent to expressions closely bordering on profanity, in consequence.

Charlemagne signed his charters and ordinances by "dipping the thumb of his dexter glove into a fluid resembling Day & Martin's Superior Blacking, and dabbing it boldly on to the royal sheepskin."

Aureus—The Golden Tractate ;

OR, THE DIVINE ART OF MAKING GOLD AND SILVER.

It must be confessed that it is a bold if not an unprecedented venture for a publisher, however sanguine or enthusiastic, to bring forward a book on such an unpopular, not to say discredited, subject as "Alchemy," but such is the fact notwithstanding, presented, however, under circumstances auspicious, that not only account for, but are calculated to inestimably enhance, its intrinsic merits. The above work cannot but prove most acceptable, unquestionably alike both to the occultist and the bibliophile.

Hargrave Jennings, in his invaluable work "The Rosicrucians," a compendium of that fraternity's "Rites and Mysteries," page 202, says : "In the year 1850, a book displaying extraordinary knowledge of the science of Alchemy, which bore the title, 'A Suggestive Inquiry into the Hermetic Mystery,' with a dissertation on the more celebrated of the Alchemical Philosophers. The work was published in London, but it is now extinct, having been bought up for suppression, as we believe " (and burnt, except perhaps, 'about a score of unrecoverable copies, worth now almost their weight in gold, he might have added). So much for an authority, as to the acknowledged source from whence this rare little brochure was culled, enriched furthermore by a full page plate embodying the whole of the obsolete illustrations from the work known as "Flammel's" on the same subject, a unique curiosity *pittoresque* in itself. Unintelligible as, in the main, such recondite matter is for at least the ordinary reader, an exhaustive summary of "Alchemy and Alchemists " from the competent pen of John Yarker, Esq., too well known in the Masonic world and to litterateurs generally, to need further comment, here bridges the hiatus, in language sufficiently intelligible to reveal this long and successfully guarded secret of the ages ; heretofore transmitted as unwritten work, only in a whisper from one generation of adepts to another.

Published only for friends, but principally it appears to complete (as originally designed) the series of the "Bath Occult Reprints" of the works of "Hermes Mercurius Trismegistus." It is on the whole a choicely printed, illustrated, and judiciously edited specimen of mediæval lore, and deservedly commands the appreciation and attention of all modern students of the occult.

ROSE CROIX.

OXYGEN KNOWN TO THE ANCIENTS. Oxygen gas was discovered by the Rev. Dr. Joseph Priestley on August 1, 1774. Previous to this date we find in the writings of the early chemists and alchemists obscure allusions to a vital air obtained from saltpeter, and in other ways; these we have discussed elsewhere (*American Chemist*, Nov., 1875), and desire here merely to record evidence that the Chinese were apparently acquainted with oxygen and with the composition of water as early as the eighth century.

The eminent German orientalist Klaproth (1783—1835) in the *Mémoires* of the St. Petersburg Imperial Academy of Sciences (Vol. II, page 476,) gives the following interesting quotation :

" There are many circumstances that purify it (referring to the atmosphere) and which can rob it of part of its *yne*; the chief of these are those things which are modifications of the *yānn*, such as the metals, sulphur, and *lāne*, or carbon. These ingredients when burnt amalgamate the *yānn* of the air, and form with it new combinations of two fundamental bases. The *Ky-yne*, or *yne* of the air is always pure; but by the aid of fire it can be extracted from *tchín-che* (a kind of whetstone,) from *khosiaō* (nitre,) and from *hho-tānn-che*, a black stone (probably black oxide of manganese) found in the marshes. It enters also into the composition of water, in which it is so closely united with the *yānn* that its decomposition becomes extremely difficult. Gold never amalgamates with the *yne* of the air and is always found native."

One does not have to be a professional chemist to appreciate the indications of this passage, which offers another proof that " there is no new thing under the sun."

H. CARRINGTON BOLTON, Hartford, Conn.

THE DOLLAR MARK (\$). " What is the origin of the sign '\$' for the American dollar?" was the question propounded at a London dinner not long ago. The American Consul did not know; neither did any one else. An extensive research resulted in this theory :

The American dollar is taken from the Spanish dollar, and the sign is to be found, of course, in the associations of the Spanish dollar.

On the reverse side of a Spanish dollar is a representation of the pillars of Hercules, and round each pillar is a scroll, with the inscription " Pius ultra." This device in the course of time has degenerated into the sign which stands at present for American as well as Spanish dollars—" \$." The scroll around the pillars represents the two serpents sent by Juno to destroy Hercules in his cradle.

THE KING AND THE SPIDER. Solomon says, "The spider layeth hold with her hand, and is in king's palaces." That even a king may receive ominous information from an insignificant reptile, the following story will demonstrate. Robert Bruce of Scotland had long waged war with Edward I of England, without success. Edward II, bent to follow his father's example, and obey his solemn injunction, resolved to reduce Scotland; for which purpose he raised an army of no fewer than a hundred thousand men, including his foreign allies. Bruce being in great difficulty, was obliged one night to take up his quarters in the barn of a loyal farmer. In the morning, still reclining his head on a strawy pillow, he beheld a spider climbing a beam to gain its curious attenuated web at the summit. The insect, in its efforts, fell to the ground, but immediately made a second essay. This attracted the hero's notice, who with regret, saw it fall a second time from the same situation. It made a third attempt without success, and in the fourth also failed. Not without a mixture of concern and curiosity, the monarch saw the persevering creature twelve times baffled in its aim to reach the place of its natural laboratory. But the thirteenth time proving successful, the king started from his couch, and thus exclaimed: This little insect has taught me a lesson of perseverance, and set me an example which I *will* follow. Have not I, in like manner, been twelve times disappointed of my wish, and defeated by the enemy's superior treachery? On one trial more depends the fate of my dear distressed country. So saying, Bruce arose, rallied his forces, and a few days after gained the memorable battle of Bannockburn, in which thirty thousand of the enemy fell in the field, and freedom was once more restored to Scotland.

COLLEGE CHEERS. The following are the cheers of the leading colleges of the United States:

DARTMOUTH.—"Wah, who, wah! wah, who, wah! da, didi, Dartmouth! Wah, who, wah!"

COLUMBIA.—"Hurra! hurra! hurra! hurra! C-o-l-u-m-b-i-a!"

CORNELL.—"Cornell! Cornell! Cornell! I yell, yell, yell, Cornell!"

HARVARD.—"Rah, 'rah, 'rah! 'rah, 'rah 'rah! 'rah, 'rah, 'rah! Harvard!"

PRINCETON.—"Hurra! hurra! hurra! Tiger—sis-e-s! boom! ah!"

RUTGERS.—"Hurra! Hurra! Hurra! Bow-wow-wow!"

STEVENS INSTITUTE.—"Boom 'rah! boom 'rah! boom 'rah! Stevens!"

UNIVERSITY OF PENNSYLVANIA.—"Hoorah! Hoorah! Hoorah! Penn-syl-van-i-a!"

WESLEYAN.—"Rah, 'rah, 'rah! Wesleyan!"

WILLIAMS.—"Eah! 'rah! 'rah! Willyums! yams! yums! Willyums!"

YALE.—"Rah, 'rah, 'rah! 'rah, 'rah! 'rah, 'rah, 'rah! Yale!"

Questions and Answers.

THE HOUSE THAT JACK BUILT. (Vol. III, p. 140.) Is there any ground for the statement that "The House that Jack Built" is but an altered version of one of the Passover prayers used in the, regular Jewish worship? and who is responsible for this statement? DJAFAR.

Every year, on the eve of the Passover, the Jews still sing the Hymn of the Kid. It is a parable, and under its simple images the great events in the history of God's ancient people are figured forth.

Young and old will all remember the childish legend of "The House that Jack built." It is said to be only an imitation of this Jewish passover hymn.

There is another nursery story of "The Kid by Moonlight," familiar to many of our readers, and so much like this Hebrew parable as to betray its old origin. The hymn, turned from Chaldee into English, was long since published in England, and was reprinted twenty-three years ago in the city of New York by Mahlon Day, a worthy and well known bookseller, and lately appeared again in the *Church Journal*.

In the lines, as they follow, the *Father* means God; the *kid* means the Jewish people; the *two pieces of money* are Moses and Aaron, by whom the Jews were brought from Egypt; the *cat* means the Assyrians; the *dog*, the Babylonians; the *staff*, the Persians; the *fire*, the Greeks; the *water*, the Romans; the *ox*, the Saracens; the *butcher*, the Franks, in the time of the Crusades; the *angel of death*, the Turks; the *Holy One*, the Messiah.

With the key already given, it will be easy to unlock the meaning of the parable. It teaches that the Almighty Father brought the Hebrew nation out of Egypt by his two servants, Moses and Aaron.

As the kid was one of the clean animals allowed for food and sacrifice, it stands for the once chosen people. The Assyrians devoured their land, and led them away into captivity. The empire of Babylon arose on the ruin of the Assyrians. Then the Persians beat the Babylonians. Then Alexander, with his fiery Greeks, overthrew the Persians, and the Jews and the world owned his sway.

Then the Roman power overflowed the earth, and subdued the Jews, as the Greek empire fell to pieces, and its glory faded.

Then followed the Saracen conquests, swallowing up the remnants of the Roman, and trampling the Holy Land under the hoofs of the

false prophet's hosts. Afterwards the Franks waged the war of the Cross, slaughtered the infidels, and recovered Jerusalem.

And again the Turks took Palestine, and hold it under their deadly dominion. At last God is to blot out the enemies of His ancient people, and restore them to their land, to dwell in peace under the sceptre of the Messiah.

The interpretation of the hymn as given is by P. N. Lebrecht of Leipsic in 1731. The hymn itself is found in *Sepher Haggadah*, Vol. xxiii. The literal translation of it is as follows :

- | | |
|--|---|
| 1. A kid, a kid, my father bought
For two pieces of money—
A kid, a kid. | That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. |
| 2. Then came the cat and ate the kid
That my father bought
For two pieces of money—
A kid, a kid. | 3. Then came the butcher and slew the ox
That drank the water
That quenched the fire
That burned the staff
That beat the dog
That bit the cat
That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. |
| 3. Then came the dog and bit the cat
That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. | 4. Then came the staff and beat the dog
That bit the cat
That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. |
| 4. Then came the staff and beat the dog
That bit the cat
That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. | 5. Then came the angel of death and killed
the butcher
That slew the ox
That drank the water
That quenched the fire
That burned the staff
That beat the dog
That bit the cat
That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. |
| 5. Then came the fire and burned the staff
That beat the dog
That bit the cat
That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. | 6. Then came the water and quenched the fire
That burned the staff
That beat the dog
That bit the cat
That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. |
| 6. Then came the water and quenched the fire
That burned the staff
That beat the dog
That bit the cat
That ate the kid
That my father bought
For two pieces of money—
A kid, a kid. | 7. Then came the ox and drank the water
That quenched the fire
That burned the staff
That beat the dog
That bit the cat |
| 7. Then came the ox and drank the water
That quenched the fire
That burned the staff
That beat the dog
That bit the cat | 8. Then came the Holy One, blessed be He,
And killed the angel of death
That killed the butcher
That slew the ox
That drank the water
That quenched the fire
That burned the staff
That beat the dog
That bit the cat
That ate the kid
That my father bought
For two pieces of money.
A kid, a kid. |

HOW MUCH IS A BILLION ? I desire to know how much is a billion ?
H. M. B.

How much is a billion ? The question as to "how much is a billion," to which attention is called in your monthly, is one quite frequently asked, and an effort, it would seem, should be made to ascertain if there is not some rule which should govern in determining an answer to this question. Such rule, I think, is found by getting at the root of what goes to make up the word billion, which is evidently a contraction of bi-million, formed from the two words *bi* and million, *bi* signifying double. Therefore billion or "bi-million" is a double million ; that is, a million being represented by six ciphers (1,000,000) a billion should be represented by double as many (or twelve) ciphers (1,000,000,000,000) and, by the same rule, a trillion or "tri-million" should be represented by triple as many (or eighteen) ciphers (1,000,000,000,000,000,000). Am I not right ?
H. M. T.

EXPANSION OF RAILROAD RAILS. What is the average expansion of a rail of railroad iron ?
R. K. D.

Two railroad men at Council Bluffs laid a wager of \$100 a side as to the number of fifteen-foot rails in a mile of track. One put the number at 1012 and the other at 980. Outside bets were made until \$5,000 were up, and then a count proved the number to be 704.

The somewhat questionable fact stated in the above paragraph taken from THE GLOBE, shows that either the manner of laying railroads, or methods of referees' counting of rails in the section of country mentioned, is rather peculiar. The following mathematical demonstration and statement of fact, is evidence that there was either faulty work or counting :

The number of feet in a mile, multiplied by 2—both sides of the track—and divided by the length of the rail—15 feet—does not give the number of rails in the road, for the reason that allowance must be made for the expansion of rails, which allowance for 15-foot rails is never less than one-eighth of an inch for every rail. Hence the result of the following process : $5280 \times 2 = 10560 \div 15 = 604$, does not show the number of rails in the track, as the allowance in the whole length must be at least 7 feet and 4 inches.

PERRY A. EATON.

MEASURES OF ELECTRICITY. How is electricity measured as to its force, quantity, etc.? R. K. M.

This question can best be answered by an extract from an address entitled "Meteorology—Atmospheric Phenomena," written for the N. H. Board of Agriculture, by Samuel D. Lord, Esq., Manchester, N. H. It is published in a 24-page pamphlet, octavo, 1887.

"Treating electricity as a power, there are some units of measurement we will study. It has units of force, quantity, velocity. The units used in the system of electro-magnetic electricity are :

1. The *volt*, the unit of electro-motive force.
2. The *ohm*, the unit of electrical resistance.
3. The *ampère*, the strength of current produced through resistance.
4. The *coulomb*, the unit of electric quantity.
5. The *farad*, the unit of electric capacity.

The volt represents about the same idea in electricity as a unit of electrical force (as we use horse-power as a unit of steam power), and is a little less than the force of a cell of the Daniell Battery — about 95 per cent. of such cell.

An ohm is a unit of resistance of the current, and is equal to the resistance of 100 yards of No. 8 Birmingham wire gauge — iron telegraph wire—*i. e.*, the resistance or friction the wire offers to the circuit. [See "Ohm's Law, N. AND Q., Vol. II, p. 340].

The ampère is the strength of current produced through a resistance of one ohm by an electro-motive force of one volt, and decomposes 1.4472 grains of water in a second of time. [See "Ampère's Law," Vol. II, p. 339].

The coulomb is the unit of electric quantity. The number of coulombs passing through a conductor is equal to the ampères multiplied by the number of seconds. [See "Coulomb's Laws," Vol. II, p. 370].

A farad is the unit of electric capacity. A body holding one coulomb of current, electro-motive force of one volt, has one farad of electric capacity.

A volt in power (like head of water), a farad in quantity, flowing through a telegraph wire 100 yards long, would equal the ohm or resistance (like friction in a tube of running water).

With these little units we may, to some extent, study the power and quantity of lightning. A volt would be greater or less than the quantity of the Leyden-jar spark, equal to about .95 of a Daniell cell, but for the purpose of illustration we will suppose them to be equal, the volt and the spark. If now we compute the area of the thunder

clouds that pass over us frequently in summer, say three miles long, and two miles wide (not extravagant when we consider that the thunder roll continues often upwards of fifteen seconds without ceasing—in a shower August 23, 1885, I counted nineteen seconds of continued roll from one discharge), we find there would be an area of six square miles or 3,840 acres of cloud.

Dr. Faraday once showed that 6,500,000 discharges from a Leyden jar would suffice to charge a thunder cloud of 35 acres, and there is no authority better than his. Now one cloud of 3,840 acres fully charged would hold a hundred times as much as the one of 35 acres, or 700,000,000 of volts. We can have some idea of the immensity of quantity, as well as force, when we put to work 700,000,000 of Daniell's batteries."

The names of the units are respectively derived from the names of the following persons :

Alessandro Voltā, Italian physicist, 1745-1827.

Georg Simon Ohm, German electrician, 1787-1854.

André Marie Ampère, French electrician, 1775-1836.

Charles Augustin de Coulomb, French philosopher, 1736-1806.

Michael Faradāy, English chemist, 1702-1867.

GOLGOTHA—"THE PLACE OF A SKULL." We are told in the Gospel (John XIX, 17) that the Hebrew word Golgotha means "The place of a skull;" and that the crucifixion was enacted at that place. Was it a burying-place that it was so named? ALEX. CUTTS.

The Hebrew word *Golgotha*, the Greek *Kranion*, the Latin, *Calvaria* all mean a skull. In Matthew (XXVII, 33), Mark (XV, 22), and John (XIX, 17) the authorized version brings over the Hebrew word, while in Luke (XXIII, 33) it gives the Latin word. There are three explanations for the the name Golgotha :

1. A tradition prevailed according to Jerome that the skull of Adam was buried on Golgotha. The body of Adam was taken by Noah into the ark, and when the ark rested on Ararat, Noah and his sons removed it. Shem or Melchizedek (they are supposed by many to be the same) a priest performed the religious rites. It was buried at the center of the earth, as they believed, at Jerusalem. Basil says that the skull of Adam was found there on Golgotha, and that Solomon knew it was there by his great wisdom, and thence it was called Golgotha. With this the most of the Fathers of the Church agree, whose testimony has been collected by Gretser in his famous book

"De Cruce." At the crucifixion of Jesus when his side was pierced by Longinus the blood flowed down upon the skull of Adam, cleansed him from all sin, and raised him to life, and he went into Paradise; that the ancient prophecy quoted by Paul (Eph. v, 14) then received its fulfilment: "Awake, thou Adam that sleepest, and arise from the dead, for Christ shall touch thee," as the old versions have it. The quotation is taken from the apocryphal book, "The Testament of the Twelve Patriarchs," which is one of the 72 apocryphal books of the Old Testament at one time in circulation, and according to Ephiphanius, it was one of the 22 canonical books sent by the Jews to Ptolemy king of Egypt.

2. Others think that Golgotha was a place where executions usually took place, and hence the name.

3. The name has been held by some to come from the look or form of the hill itself, bald, round, and skull-like, and therefore in accordance with the modern phrase "Mount Calvary"; but neither Eusebius, Cyril, Jerome, nor any of the earliest historical writers ever speak of Golgotha as a hill.

PHILONIC, AND STRABONIC. (Vol. III, p. 140.) Authors speak of doctrines, principles, etc., as Platonic from Plato. Is it correct to use "Philonic" as from Philo, and "Strabonic" as from Strabo, etc.?

BELGRADE.

Philonic is correct, Philon being a Hellenic word; but Straborean would be more accurate with the Latin name Strabo. A. W.

I shall have to differ with "A. W." as Strabo is a Greek name and Strabonic is the correct word. Philo, Philonos; Strabo, Strabonos.

PLATO E. DRACULY, Athens, Greece.

THE DEVILTRIES OF VARNISH. (Vol. III, p. 188.) What is the peculiarities or phenomena known to painters as the "Devilttries of Varnish?"

PETER PENCE.

The peculiarities called "Devilttries" are developments of all varnishes, and are similar to the appearance of water when poured upon oil, an elastic, spreading nature. Various theories have been put forth for this, some attributing it to the atmosphere, some to the oils use, and some to the rays of light or the sun.

PAINTER.

"WALKING THE CHALKS." (Vol. III, 140.) What is meant by "walking the chalk?" GiMeL.

To walk chalks is an ordeal used on board ships. The practice is more frequent among sailors than others, though it is used to some extent among soldiers, as a test for drunkenness. Two parallel lines are chalked for some distance upon the deck, and if the supposed delinquent is able to walk from one end to the other without overstepping either, he is declared to be sober, amid uproarious applause.

PHILOS, Baltimore, Md.

NINE-LETTERED WORDS. (Vol. III, p. 188.) Are there more than two nine-lettered monosyllabic words (scratched and stretched) in the English language? Are there any with ten letters? OBSERVER.

A few more monosyllables of nine letters have come to my mind which I will here give: Craunched, Scrunched, Screeched, Squelched, Staunched.

J. WEBSTER, Boston, Mass.

THE LAST MESSIAH. Who was, when, and where did the last false Christ appear? STUDENT.

The most recent appearance of a pseudo-Christ according to McClintock & Strong's Cyclopædia (Vol. VI, p. 144) was in 1872. The *Fremdenblatt*, August, 1872, says that a new Messiah made his appearance in Germany, and was graciously pleased to address his first official communication to the Jewish congregation at Berlin. The manifesto, "To whom it may concern," bore a seal which had on it the crown of Israel, the shield of David, and the following words as a motto: *Lo bechail velo bekoach ki im beruchi Adonai Zabaoth*. "Not by might, nor by power, but by my Spirit, saith the Lord of Hosts."—(Zech. vi, 6.) He called his name "Jekuthiel" (1 Chron. vi, 18) king of Israel, and announced that he had come to assume the throne of his empire as the true Messiah. A year passed, but nothing was heard of his entry into the capital of the German empire.

Jekuthiel means "trust in God," and was a title borne by Moses, because in his days, the Israelites "trusted in the God of Heaven for forty years in the wilderness." In a prayer used by the Spanish and Portuguese Jews, Elijah is invoked as having had "tidings of peace delivered to him by the hand of Jekuthiel."

The title Jekuthiel was assumed by Mose Chayim Luzzatto who flourished 1707-1747, in Italy. He wrote a second "Sohar," and actually believed himself to be the predicted Messiah.

UNIVOCALIC VERSES. What are *univocalic* verses? I saw the term in a magazine. VERITAS.

Univocalic poems are such as are composed independent of four of the five vowels. We cannot here give examples of each vowel, but will give one from those previously published (Vol. I, p. 85.) Though not exactly answering the purpose of the puzzle for which it was devised, we give it as an example of the wide range of language which can be commanded even under an extreme restriction. It will be observed that it contains but one vowel throughout :

" Eve, Eden's Empress, needs defended be
The serpent greets her when she seeks the tree;
Serpent she sees the speckled tempter creep;
Gentle he seems—perverted schemer deep,
Yet endless pretext, ever fresh, prefers,
Perverts her senses, rovals when she errs,
Sneers when she weeps—regrets, rejects she fall,
Then, deep, revenged, re-seeks the nether hell."

FIRST LAND SEEN BY THE CABOTS. We are told in history that the first land seen by the Cabots on the east coast of North America was called by them *Prima Vista*, and an island was called St. John. What island was this? and why called *Saint John*? MASON.

The last question we answer by referring to Hakluyt's collection of early maps. Hakluyt preserved a map inscribed on it the *day* and the *hour* at which North America was discovered by the Cabots as follows :

" In the yere of our Lord, 1497. John Cabot, a Venitian, and his sonne, Sebastian, (with an English fleet, set out from Bristol,) discovered that land, which no man before that time had attempted, *on the 24 of June, about 5 of the clocke early in the morning.* This land he called *Prima Vista*, that is to say, First Seene, because, as I suppose, it was that part whereof they had the first sight from sea. That island which lieth out before the land he called the Island of St. John, upon this occasion, as I thinke, because it was discovered upon the day of John de Baptist.

This scrap of history answers the last question and shows how the early discoverers revered the patron saints by perpetuating their names. For other examples: *Saints* Augustine, Johns (the Baptist and the Evangelist), three Marys, Peter, Paul, etc.

The *Prima Vista* (first view) was the coast, and the island "lying out before the land" he called "the Island of St. John."

QUESTIONS.

1. Will any one of your readers give a satisfactory explanation of the "Allegory" in Galatians IV, 24 ? Is an allegory the same as a parable ?
E., Bethany, W. Va.

2. When did the crown become the emblem of knightly authority ?
D. M. DRURY, Brooklyn, N. Y.

3. Can any one tell me the author's name, of the novel entitled : "The Dash Woman or the Plot and Passion, or the Days of the Prince Regent" ? in two volumes.

CHAS G. DILL, Middletown, N. Y.

4. Can any one tell me who wrote "Single Blessedness," published in 1852, by C. S. Francis & Co. ?

J. FRANCIS RUGGLES, Bronson, Mich.

5. What is known of the Kenites of the Hebrew Scriptures ?
Who were the Nazarites ?

What is known of the Nabiaim in Oriental countries ?

What evidence have we of the time when the Old Testament canon was arranged ?

What is the story of gunpowder or some explosive compound used by the Indian princes of the Punj'a'b, in their war against Alexander.

W., Newark, N. J.

6. Will some one *who knows* tell why the period (.) is placed after the Roman numerals, I, V, X, L, C, D, M, and their combinations ; as George I., Richard III., Louis XIV. ; Section X., Chapter XXII., etc. ?

STONEHENGE.

7. What is the annual mourning of the "Hassan and Hossein" of the Persians, mentioned in Kitto's Cyclopædia, Vol. I, p. 505 ?

G. S. CLARK.

8. What are the five operations of the Lord referred to in the following verse of Ecclesiasticus XVII, 5 ?

["They received the use of the five operations of the Lord, and in the sixth place He imparted them understanding, and in the seventh speech, an interpreter of the cogitations thereof."]

Is it possible in using a connective vowel system of shorthand to insert all the vowels and keep up with a rapid speaker ?

GIMEL.

9. Can some reader inform me what the law is in the different New England States in regard to the marriage of cousins ; and whether the law applies to the first cousins only, or does it include relatives more distant than first cousins ? GEO. DAVIDSON, Hanover, N. H.

1. The diæresis is defined as "a mark (' ') placed over the second of two adjacent vowels to denote that they are to be pronounced as distinct letters," and the example "coöperate" is given. In books printed in England however the diæresis seems to be used with some other meaning, for it is found where independent pronunciation of the second vowel could hardly be intended. Thus, in Watt's Dictionary of Chemistry, and in Fownes' Chemistry, I find "alkaloïd. Do Englishmen really say "alkalo-eed"? or is the diæresis misused in this case?

AVICENNA.

2. Why are the colors, "Red and Black" called the "Devil's mourning"?

CALIBAN.

3. In England a billion is a million million, but in America and France it is only a thousand million. Why this discrepancy? and why does the United States follow France rather than England?

ABULCASIS.

4. The city of Hartford, Conn., has no *free* library, but students and men of letters have access to no less than five libraries well stocked with carefully selected books. These are:

State Library,	14,000	Watkinson Library,	38,000
Trinity Library College,	28,000	Theological Seminary,	42,000
Hartford Library,	36,000		
Total,			158,000

This is exclusive of many thousand pamphlets, and takes no account of the valuable and numerous private libraries. The population of Hartford is about 45,000, and thus each man, woman, and child is supplied with more than $3\frac{1}{2}$ books. Can any other town or city in the United States show a larger number of books in proportion to the population?

The eminent portrait painter James Sharples, in Walter's "Memorials of Washington," relates that the following inscription is found on a gravestone in the churchyard at Corsham, Wiltshire, England:

"In memory of SARAH JARVIS who departed this Life the 11 day of December 1753 in the Hundred and Seventh Year of her Age. Sometime before her Death She had Fresh Teeth."

Can this record be true? Can authentic instances be cited of men or women having "fresh teeth" in their old age?

The Game of Golf is very popular in Scotland and England. It consists essentially in driving a ball by the aid of golf-sticks into a series of small holes placed irregularly, hundreds of feet apart and in uneven ground. He who drives the ball around with the fewest strokes is the winner. Do the readers of your magazine know of this game being played in the United States or Canada? If so, the address of a Golf-club is desired.

DJAFAR.

1. Will some contributor to your magazine give the colors worn as mourning by various nations ?
HENRIETTA.

2. "The sea *is* his, and he made it." (Psalm xcv, 5) In most of ancient books the large body of water surrounding the continents is called *sea*. Why was it called *ocean*, when, and by whom ? Z.

3. Who was called the "Laughing Philosopher," and why ?
W. E. M.

4. Where is the following quotation found ? "The oil of gladness lubricates ; the acid of anger corrodes" ?

MARY A. POST, Brooklyn, N. Y.

5. Pope says in his "*Messiah*," — a Sacred Eclogue in imitation of Virgil's *Pollio* : "All crimes shall cease, and ancient frauds shall fail." What is referred to by "ancient frauds" ?
ANDREW SMITH.

6. Herodotus and Ktésias affirm that Cyrus the Persian conquered Babylon. The Book of Daniel says that "Darius the Median took the kingdom." Can the two statements be harmonized ?

Who and what was Apollonius of Tyana ? Are evidences of his existence, itineracy, and marvellous powers reasonably established as history ?
A. W.

7. A historian writing on Odd Fellowship says "the term by which the Order was known, once a beautifully expressed word, signifying *friends traveling together*, now fails to indicate to the uninitiated the elevated principles and moral precepts which the Order enjoins." What was that "beautifully expressed word" ?
AGNOSTIC.

8. Why was the name *green* land given to Greenland, and by whom ?
VIDEX.

9. On what map, and at what date, was the Atlantic Ocean first put down as the *Atlantic* ? Does Ignatius Donnelly, in his work, "*The Lost Atlantis*," give any information on this subject ? Does Mr. Donnelly give any information of the supposed lost city called Norembega, as described by Whittier, and others. (Vol. II, pp. 537).
CHARLES CABOT.

10. What was the prophetic idea of the father of the Discoverer of America in naming his children ? We are told he named one *Christopher* (Christ-bearer), one that would carry the cross to the entire world. Another son was called *Bartholomew* (Bar-Ptolemy, son of a soldier), one that would perpetuate his ancestor's desires to conquer the world. Swedenborg had similar characteristics.

PHILOLOGOS.

11. What are some of the proofs that Sir Isaac Newton "stole the principles of his philosophy from Jacob Bœhme," as alleged by William Law ?
PHILIP WORTH.

1. Who were the ancient Pneumatists ?

W.

2. What is the English translation of the following inscription on the tomb of Paracelsus :

"Conditur hic Philippus Theophrastus Insignis Medecine Doctor Qui Dira illa Vulnera, Lepram, Podagram, Hydroposim, aliaque insanabilia corporis contagia mirifica arte sustulit ac bona sua in pauperes distribuenda collocandaque honeravit Anno MDXXXXI Die XXIIII Septembris vitam cum morto mutavit Pax vivis Requies eterna sepultis."

JOEL HENDERSON.

3. Mohammedanism comprises Islamism, Ismaelism, Moslemism, Sufism, etc. Are these the faiths of *sects* or *denominations* of Mohammedanism, similarly as Christianity is represented by Baptists, Catholics, Episcopalians, Methodists, etc. ?

CATECHUMEN.

4. Have any explanations been given, of the words *Konx, Om, Pax*, used in ancient religious rites ?

NEOPHYTE.

5. What is the explanation of "the golden wedge of Ophir," in Isaiah xlii, 13 ; Joshua vii, 7, 24 ?

Why is Mid-lent Sunday called "Mothering Sunday" ?

What is the Tetragrammaton mentioned in Vol. III, p. 95 ?

X. Y. Z.

6. Pope in "The Dunciad" (line 258) says : "There Webster ! peal'd thy voice, and Whitefield ! thine." What Webster does he refer to ?

WEBSTER.

7. Will some reader explain to what Longfellow alludes in the poem entitled *The Children's Hour*, by "The Mouse-Tower on the Rhine" ?

A. L. G.

8. Why were the inhabitants of Deutchland called Germans and Allemani, by others ?

What regions and people were signified anciently by the designations *Æthiopia*, *Æthiopes*, *Æthiopians* ?

What is the distinction between the "Pelagian Zeus" and the "Olympian Zeus" ?

What is the etymology of the ancient Greek goddess-name *Aphrodite* ? In answering this the sea-foam legend may as well be omitted.

Why are persons of supposed occult powers called *witches* ?

A. W.

10. What was the remark that Archimedes made to the Roman soldier when he was ordered to quit and go to Marcellus, at the capture of Syracuse before Christ ?

LOCOS.

11. Where are the words of Jesus found quoted by some of the early ecclesiastical writers : "Let us resist all iniquity and hate it."

SEARCHER.

Journal of American Akademe.

This journal has for its objects: "To promote the object of philosophic Truth and the dissemination of such knowledge with a view to the elevation of the mind from the sphere of the sensuous life into that of virtue and justice, and into communion with diviner ideas and nature. This organ of the American Akademe will afford the members a full knowledge of the proceedings of its stated meetings; also, papers read, notes of discussions, reviews and criticisms, and other matters of interest. It is royal octavo, 24 pages, ten number, \$2.00 a year. All orders, letters, and communications should be addressed to Miss Emily Wing, Secretary, Box 101, Jacksonville, Ill., or to the Editor, Alexander Wilder, M. D., 365 Orange Street, Newark, N. J.

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THE BIZARRE.

NOTES QUERIES

15

*HISTORY, FOLK-LORE, MATHEMATICS,
MYSTICISM, ART, SCIENCE, Etc.*

"Go on, and the Light will come to you." — Jean D'Alembert.

VOL. IV. MARCH, 1887. NO. 3.

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MISCELLANEOUS

NOTES AND QUERIES,

WITH ANSWERS.

" *The search after Truth is admiration.*" — PLATO.

VOL. IV.

MARCH, 1887.

No. 3.

The Mystery of the Holy-of-Holies Explained.

The symbols relating to the Holy-of-Holies to be explained are :
 A box called an Ark ; two Tables of Stone within it ; upon it a Mercy-Seat of gold, and two Cherubim beaten out of it—one at each end. The Ark and its emblems always to be kept together ; if moved, it was to be carried as God directed, by certain persons chosen and set apart for this express purpose. They were to carry it, not by touching it, but by staves put in four rings in the sides of the Ark. The staves were never to be removed.

The Bible interprets the symbols fully. There is not time nor space allowed here to cite the proof—chapter and verse. Only the results can be stated. The interpretation of the symbols revealed when the Veil of the Temple was rent at the crucifixion of Christ, can be briefly stated as follows :

1. The whole Temple was fulfilled in Christ himself, as he expressly declares, as also St. John in the Revelation declares.
2. The Ark of the Testimony in the Holy-of-Holies was fulfilled in Christ, as the *Word* of God—the testimony God gave him, he gave to man. Believe and be saved, is the sum of the matter.
3. The two Tables of Stone within the Ark, are the full law of all

the commandments, written on the heart of Christ. They are sum and substance of both covenants, as all the laws and prophets also, hang on them. The first Covenant, written by God's fingers, on the two Tables of Stone, but impatient man broke the first Tables and Covenant God so made. The second Covenant written by God on the true corners-stone, the rock Christ Jesus, on his heart within.

4. The Mercy-Seat was fulfilled in Christ. That was the place from whence the word of God proceeded, as a healing word, or a consuming fire, as the occasion demanded.

The Cherubim, made and beaten out of the same piece of gold of which the Mercy-Seat was constructed, are redeemed men, beaten out of Christ with many stripes, and becoming one with him and a part of him. There were two Cherubim thus beaten out; they connect through the Mercy-Seat, that is through Christ, and all constitute one piece of work, from one piece of gold. The two Cherubim thus united are the Jew and Gentile, one for each, and Christ broke down the middle wall of partition between the two, and joins all into one with himself. We see it is prophecy as to Christ, and the spread of the gospel. Christ is the true Ark, the true Tables of Stone on which the law was written, and is now being written upon the hearts of the two Cherubim,—one with him, both Jew and Gentile, both beaten out of him. He is the true Mercy-Seat, and Word of God, for eternal life, or eternal death by fire.

Further. All was to be carried by the hands of men, chosen and selected, by means of two staves placed in rings. The staves were never to be removed. Thus the Ark and its emblems were always in readiness for men to carry, when the cloud or the Spirit directed the march to be made. No delay on God's side.

Thus to make the waters of Jordan divide, for the people to pass over, or the walls of Jericho to fall, for the people to pass in, the chosen ones must take the figures of the true — the Ark and its emblems, to the place, and in the way and manner that God directed. That was man's part. Then when man had obeyed, God acted, and God did not act until the obedience was perfect.

When the veil was rent, the mystery was ended, and reached. Christ himself, as soon as he arose, stated it clearly. Six words state the whole mystery: Go, "preach the Gospel to every creature."

Paraphrased thus : Go, teach the Word of God, even Christ, the Ark of his testimony ; teach the commandments of God, even the Words of Christ, setting forth the law of God written upon the heart of Christ, the Rock, the chief corner-stone. Preach mercy and forgiveness from the Mercy-Seat, Christ Jesus. Teach that sinful men can become one with Christ, through his stripes, and there become healed. Teach that man and man alone, under God's law, is to obey before God fulfills. That man must act to keep God within the heart. Man plants, God gives the increase. That the Cherubim are redeemed men is proved clearly.

The children of Israel marched under four great leading standards and cohorts. The four leading standards were : That of Judah, a Lion ; of Ephraim, an Ox ; of Reuben, a man ; of Dan, an eagle. There are the four heads of the living creatures, which Ezekiel (i) saw. In Ezekiel x, he says these living creatures were the Cherubim. In Revelation (iv) these four living creatures sang a new song, which could not be sung until the slain Lamb had taken the book, sealed with seven seals, to open it. Then the mystery was permitted to be sung and proclaimed. Accordingly the four living creatures, the four beasts, declare that they are redeemed men, out of every kindred, tongue, people, and nation, redeemed by Christ's blood.

The whole mystery is a symbolic setting forth of Christ Jesus as the Word of God, on whose heart the law was written, as the seat of all mercy, his sufferings, and the healing of man by his stripes, and the oneness of man and Christ, and man's duty at all times to carry the message to all the world. The Gospel teaches that sinful men can become the Cherubim when joined with Christ upon the Ark.

SILAS B. BEACH, Portsmouth, N. H.

A MARVELLOUS WORK. The Janesville (Wis.) *Sun* came to the *Penman's Art Journal*, (New York City), with the statement that Mr. F. H. Criger, a young local card writer, of Janesville, Wis., has succeeded in putting 10,357 words on one side of a postal-card, with pen and ink. This is indeed, if true, a marvelous work. The enthusiastic *Sun* says : " We acknowledge him the most wonderful fine writer that in thirty years experience in the theory and practice of the art that has come to our notice."

DIVISIONS OF THE BOOKS OF THE BIBLE. (Vol. II, p. 458.) I find you follow Webster's Dictionary in giving the books composing the HAGIOGRAPHIA (Holy Writings). This term is first found in the *Panarium* (p. 58) of Epiphanius, and applied to five books, Job, Psalms, Proverbs, and two books of Chronicles. Jerome gives the arrangement as followed by the Jews in his time, adding to the above, Ecclesiastes, Solomon's Songs, Lamentations, Ruth, Esther, Daniel, and Esdras (Ezra and Nehemiah.) The Hebrew name of the Hagiographia is *Ketubim* (the Writings). The term canon is used to denote the inspired books now known as the Bible (*books*). The Jews and early writers designated the Old Testament as the Scriptures (the *writings*), the Law and the Prophets.

MEGILLIOTH. This term was applied to the division of books, Solomon's Songs, Lamentations, Ecclesiastes, Esther and Ruth. These books were read at feasts and festivals. The term is once applied to the Pentateuch in Psalm XL, 7 : "In the volume of the book it is written of me."

PENTATEUCH. This term covers the *five books* ascribed to Moses, Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. The Hexateuch (*six books*) includes Joshua. The Heptateuch (*seven books*) includes Joshua and Judges. The Octateuch (*eight books*) includes Joshua, Judges, and Ruth. Webster says the word Octateuch is thus improperly applied.

APOCRYPHA. This word is first found in the *Stromata* (IV, 13) of Clemens Alexandrinus, and applied to all those books considered uncanonical. They are placed usually at the end of the Old Testament.

The *Canticles* are the "Songs of Solomon."

The *Kohleth* (the Preacher) is the book of "Ecclesiastes."

The *Midrásh* is a term applied to the oldest Jewish exposition of Scriptures. It occurs twice in the Old Testament (2 Chron. XIII, 22 ; xxvi, 27), where it is strangely rendered in King James' Version by the word "story."

The *Diatheka* is a word of peculiar translation. In 1 Kings VIII, 21, it is rendered "covenant" as comprising the Tables of the Law.

The *Decalogue* means "the ten words," and comprises "the moral law," found in Exodus xx, 3-17. The Decalogue is five times alluded to in the New Testament and there called "commandments."

The Gospels are the books of Matthew, Mark, Luke, and John ; the first three are called the *Synoptics*, because they are rather a synopsis of the career of Jesus than a history.

The *Beatitudes* are the nine pronouncements to the "Blesséd," (Matt. v, 3-11.) The "Mount of Beatitudes" is the place where they are believed to have been uttered, now known as *Kurun Hattin*, or "Horns of Hattim," on the road from Nazareth to Tiberias.

The *Pater Noster* is the "Lord's Prayer" (Matthew vi, 9-13 ; Luke xi, 2-4).

The *Evangelists* are Matthew, Mark, Luke, Philip (Acts xxi, 8), Timothy (2 Timothy iv, 5). The modern use of the word is applied to preachers rather than gospel-writers.

The *Epistles* (or letters) are the books, Romans to Jude inclusive.

The *Apocalypse* is the Greek name for the book of "Revelation."

The *Apocatastasis* is a word rendered in Acts III, 21, by "restitution" which forms the basis of the doctrine of the Restorationists.

THEOPHILUS.

THE HUMAN PROPORTIONS. The proportion of the human figure are six times the length of one of the feet. Whether the form is slender or plump, the rule holds good ; any deviation from it is a departure from the highest beauty in proportion. The Greeks make all their statues according to this rule. The face from the highest point of the forehead, where the hair begins, to the chin, is one-tenth of the whole stature ; the hand from the wrist to the middle finger, is the same ; from the top of the highest point of the forehead, is one-seventh. If the face, from the roots of the hair to the chin, be divided into three equal parts, the first division determines the place where the eye-brows meet, and the second the opening of the nostrils. The height, from the feet to the top of the head, is the same as the distance between the extremities of the fingers of each hand when extended.

A HIGH-PRICED ALMANAC. The State Department paid \$22.50 at a book auction recently for an almanac, and it would have readily given \$100 for it. It was one that Jefferson had used, and it contained many notes in Jefferson's handwriting upon its pages. This almanac was a part of a Virginia collection made by Mr. Shouey, one of the stenographers of the Senate, and the second-hand bookseller of whom Mr. Shouey bought the almanac tells that he sold it to him for \$1. This bookseller has a book-shop near the Post-Office Department.

Questions and Answers.

OLIVE, PRINCESS OF CUMBERLAND. (Vol. III, p. 92.) Will some reader inform me about the life and career of Olive, Princess of Cumberland, subsequent to 1822 ? also, the date of her death ? Olive claimed to be the legitimate offspring of Henry Frederick, brother of King George III, and the daughter of Dr. James Wilmot, to whom Frederick was secretly married in 1767. The encyclopædias are silent on the subject.

B. C. M., Dennison, Texas.

Henry, Duke of Cumberland, brother of George III. bore the reputation of being an unprincipled libertine. His first amour was with a young and beautiful woman, Henrietta Vernon, wife of Lord Grosvenor. The indignant husband sued him and obtained judgment for £10,000 which, the king was obliged to pay.

In October 1771, the Duke privately married Mrs. Horton, widow of Christopher Horton of Derbyshire. She was a Miss Ann Luttrell, daughter of an Irish peer, and sister to the notorious Colonel Luttrell, who represented Middlesex, in lieu of the celebrated Wilkes.

The king was highly incensed with his brother's marriage, and at first forbid his wife's reception at court, but finally became reconciled. There was no issue of this union. The Rev. James Wilmot, D. D., and a confidential friend of George III, married them. One authority (Lady Hamilton, in her "Secret History of England during the reign of George III," Vol. I, p. 48), states, in this connection, that "Dr. Wilmot boldly remonstrated with the king for recognizing this marriage, and charged the Duke with being a bigamist, as he had only twelve months before married his (Dr. Wilmot's) daughter. But the king quieted the Doctor by assuring him of redress." This is a very improbable story and the authoress, in her anxiety to blacken, or rather expose the blackness of the Georges, over-reaches herself. As Dr. Wilmot had officiated at his own daughter's marriage (if it ever occurred), he *knew* of it, and in marrying his alleged son-in-law the second time, with his first wife still living, he was himself a *particeps criminis* in the bigamy ! This is too monstrous for belief. The fullest account of the "Olive Wilmot" story is to be found in Fitzgerald's "History of the Dukes and Princesses of the Georgian Family," Vol. II, chap. 11, p. 182, *et seq.* There it is stated that in 1816, a Mrs. Serres, calling herself Princess Olive, and her daughter a Mrs. Ryves,

claimed to be respectively the wife and daughter of Henry Frederick Duke of Cumberland, and entered suit to establish the claim. Olive Serres says she was born April 8, 1772, and her daughter was married to the Duke at the house of Lord Archer in Grosvenor Square, by Rev. Dr. Wilmot, father of Olive Wilmot. Thy produced innumerable documents, including the certificate by Dr. Wilmot, attested by several of the nobility, and also acknowledgements of the marriage under the king's signature, and his written request that she should be baptized, Olive Wilmot, to secure secrecy; also a will of George III, bequeathing her an annuity of £500 and creating her Duchess of Lancaster, etc. But an examination of the papers by the Court, proved by their internal evidence and lack of the proper seals, with the mistakes in titles, to be forgeries, and the bottom dropped out of Olive Wilmot's claim to *sang bleu*, and she was dismissed from Court. Thus ended this chapter of fraud. A. P. SOUTHWICK, Baltimore, Md.

THE ILLUMINATI. (Vol. II, pp. 448, 472.) Who originated the Illuminati? Is it now in existence? INQUIRER II.

This Order was founded May 1, 1776, by Adam Weishaupt, professor of Canon Law at the University of Ingolstadt. The Order was first known by the name, "Order of the Perfectibilists," and announced their aim to be to elevate mankind to the highest possible degree of moral purity, and to lay the foundation for the reformation of the world by organizing an association of the best men to oppose the progress of moral evil. The aspirations and good intentions of its founder are beautifully expressed in the epitaph which the persecuted Weistaup selected for his tombstone, as follows:

Hic situs est Phaeton, currus auriga paterni,
Quem si non tenuit, magna tamen excedit aulis.

"This is the resting place of Phaeton, son of Apollo; he failed to guide the chariot of the sun, and fell — yet nobly fell — so lofty the attempt."

He believed in the true dignity of manhood, and had the full conviction of what could be done, if every man were placed in the office for which he was fitted by nature and a proper education. This first suggested to him the plan of the Illuminati. It is reproachful to human nature, that men respectable for their acquirements, and in good repute in society, should use every possible means by calumny and falsehood to destroy the character of Dr. Weistaup. The Illuminati

was warped from its original designs subsequent to its foundation, so much so that Weistaup left it Feb. 15, 1785, and quit the country. He died Nov. 18, 1830. The Order declined rapidly after 1785 and disappeared at the close of the last century.

The name Illuminati had, however, been used once before 1776, and applied to a society in Spain, about 1575. The members bore the name Alumbrados. They were of a religious character, and the society ceased in 1635.

THE EGG QUESTION. (Vol. I, p. 222.) Can the following question be solved analytically? Will any problem giving rise to an affected quadratic, admit of an arithmetical solution?

"Bought a number of eggs for which I paid one shilling. Had I got two eggs more for the same money, they would have cost one penny less per dozen. How many eggs did I buy?" SHENANDOAH.

The following is respectfully offered: We have in this and similar examples, *given the difference* of two numbers and their *product* to find the numbers. In the present case the difference is 2 and the product $(12 \times 12 \times 2) \div 1 = 288$; hence the sum of the numbers $= \sqrt{288 \times 4 + 2^2} = 34$; and $(34 - 2) \div 2 = 16$ the number of eggs bought at first; and $(34 + 2) \div 2 = 18$ or two more at the same price.

A. L. F.

THE FALLACY. (Vol. III, p. 198.) I must object to the criticism of

"A. L. F.," upon the method of clearing the equation $\frac{\sqrt{-1}}{\sqrt{-1}} = \frac{\sqrt{-1}}{\sqrt{1}}$

of fractions. An equation is cleared of fractions by multiplying both its members by some multiple of its denominator. The multiple here used is $\sqrt{-1} \times \sqrt{-1}$. In multiplying the first member by this multiple you multiply by $\sqrt{-1}$ by cancelling the denominator and then multiplying by $\sqrt{-1}$. In the second you multiply by $\sqrt{-1}$ by cancelling the denominator and then multiplying by $\sqrt{-1}$.

The clearing of fractions as I gave it is perfectly right and any other method is wrong. "A. L. F.," will have to try again before he finds the difficulty.

E. T. Q.

FIRST BOAT DRIVER ON ERIE CANAL. Peter Cummius was the man who drove the first boat through the Erie Canal, in 1825, from Buffalo. DeWitt Clinton stood at the bow and gave the word to start. Cummius remained a driver till he was 75 year old, and was drowned at Pendleton, N. Y.

J. H. H. DEMILLE.

NOVEL METHOD FOR SQUARING NUMBERS. The following method of squaring any number, we think possesses some advantages over the usual manner of putting the number down and multiplying it by itself. I have used it in my own practice for upwards of 30 years, but do not claim anything original in its use, it being merely an application of the well known principle that the square of any polynomial is equal to the sum of the squares of its several terms plus twice the product of every two terms of the polynomial. For example :

$$(a+b+c+d)^2 = a^2 + b^2 + c^2 + d^2 + 2ab + 2bc + 2cd + 2ac + 2bd + 2ad.$$

Take the number, 4567, and denoting 4 by a , 5 by b , 6 by c , 7 by d , and we have the following arrangement :

$$\begin{array}{cccc} a & b & c & d \\ 4 & 5 & 6 & 7 \\ \hline 16 & 25 & 36 & 49 \\ 2ab & 2bc & 2cd & \end{array} \quad (1)$$

$$\begin{array}{ccc} 40 & 60 & 84 \\ 2ac & 2bd & \end{array} \quad (2)$$

$$\begin{array}{cc} 48 & 70 \\ 2ad & \end{array} \quad (3)$$

$$\begin{array}{ccccccc} & & & & 56 & & \\ \text{Sum} & . & . & . & 2 & 0 & 8 & 5 & 7 & 4 & 8 & 9 = (4567)^2 = \\ & & & & a^2 + b^2 + c^2 + d^2 + (2ab + 2bc + 2cd) + (2ac + 2bd) + 2ad. \end{array} \quad (4)$$

Commencing at the left, it will be seen that (1) is the squares of the digits taken in order to the right. Commencing again at the left, it will be seen that (2) is composed of twice the product of each two adjacent figures in the given number, the left hand one written one place to the right of the left hand figure in (1). In column (3) we begin with the left hand figure, skipping one figure—that is the double product of every two alternate figures, writing the left hand figure one place to the right of the left hand figure in (2). For column (4) begin with the left hand figure and skip *two* figures for the first double product, write as before, and so on. Every product is to consist of two figures, so if there is only one a cipher must precede it, and if in obtaining the double products any number consists of three figures,

the two right hand figures are written as usual, and a period placed at the left to show that in adding, the figure to the left of the period is to be counted one more than it is. Take the example :

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	
	6	5	9	0	8	0	6	

$$a^2 + b^2 + c^2 + d^2 + e^2 + f^2 + g^2 = 36 \ 25 \ 81 \ 00 \ 64 \ 00 \ 36 \quad (1)$$

$$2ab + 2bc + 2cd + 2de + 2ef + 2fg = 60 \ 90 \ 00 \ 00 \ 00 \ 00 \quad (2)$$

$$2ac + 2bd + 2ce + 2df + 2eg = 108 \ 00 \ 44 \ 00 \ 96 \quad (3)$$

$$2ad + 2be + 2cf + 2dg = 00 \ 80 \ 00 \ 00 \quad (4)$$

$$2ae + 2bf + 2cg = 96 \ 00 \ 08 \quad (5)$$

$$2af + 2bg = 00 \ 60 \quad (6)$$

$$2ag = 72 \quad (7)$$

$$4 \ 3 \ 4 \ 3 \ 8 \ 7 \ 2 \ 3 \ 7 \ 2 \ 9 \ 6 \ 3 \ 6 \quad (8)$$

(1) Is the squares of the digits in order. In *d* and *f* the ciphers squared require two ciphers in the product.

(2) Is twice the product of each two adjacent figures, etc., as in the first example.

1. We claim for the above method that we can read and put down our results more rapidly than the ordinary method from right to left.

2. That the effort of keeping the eye on the right figures in each multiplication is just as easy as in the ordinary method.

3. There is no "carrying" no more figures to write than in the ordinary method. The above principle may also be applied to the multiplication of two different numbers. A. L. F., Merrick N.Y.

NANCY TAYLOR'S QUEER EYES. Nancy Taylor, a girl of ten years, in Grant Township, 12 miles from Bedford, in Iowa, is one of six children (three boys and three girls). Miss Taylor's eyes represents the theory that one sees objects upside down. She does her examples and writes with inverted characters beginning at the right hand side of the slate or paper. When she reads she turns the book upside down. This is the case only when objects are brought near her eyes. Beyond that they are not inverted, but appear natural, as to other

people. Here is an illustration of four examples in arithmetic, given to her to perform by a correspondent of the *New York Sun*, and performed by her :

÷	×	—	+
	984		
	8z		161
2654	164	289	
			61
269z (3) 769z	1z	583	57
	8z	87z	43

She has not yet succeeded in mastering the art of writing, but instead prints her words. She makes the letters quite rapidly, and her ideas are lucid and quick. She printed the following sentence at the request of the correspondent :

any, but I dont like Folks to Bother me about my eyes.
Other Folks says they Do. My eyes flutter for a minit but dont hurt
thing is took more than so far away from me thah I see Like
I dont know how I come to see as I do see but I do. When any-

Miss Taylor uses her left hand in writing. Her eyes are light blue and have nothing to distinguish them from ordinary optics. Local oculists have failed to discover any evidence of malformation.

Curious Names and Words.

NEW NAMES. When the Chief Engineer of the Illinois Central Railroad was laying out the line, and wanted a new name for a station, he would shuffle a pack of cards, each inscribed with a letter, until a satisfactory combination suggested itself — as Tolono, Aledo, Diona, Nakomo, etc.

LONG NAMES. Some of the queer names hail from the Basque provinces of Spain. Two officials in the Treasury Department at Madrid, who claim Basque descent, call themselves respectively Don Epifanio Mirurzurundundua y Zengotide, and Don Juan Nepomueeno de Burisnagouatstorecagoceaccoccha.

THE "JIMPLECUTE." It is said that when the first number of the *Jimplecute*, published at Jefferson, Texas, was about to be printed, the proprietor, who had not yet decided upon a name for the paper, picked up a handful of "pi" from the imposing-stone, and set the type up in a composing-stick. The result was the word — "jimplecute," which he accordingly adopted for the name of his new paper.

THE WORD "SPIFICATE." The word "spificate," says a correspondent of the *New York Sun*, sounds very familiar. If not exclu-

sively Yorkshire, it is in common use in that part of England. "I'll spifigate you;" "I was regularly spifigated," meaning, "I'll knock the *wind* out of you," and "My *breath* was taken away," respectively. All this seems homelike to one who was born and bred there. So also does the word "Flabbergasted" mean that he was "struck speechless."

NEW NAMES FOR CANDIDATES. The recent election of Deputies in France brought to the front many queer characters who presented themselves for the suffrages of their fellow-citizens upon extraordinary platforms. The very suggestively-named M. Gague announced himself as the "archi-human candidate, propagator of philanthropophagy, or the manducation of man for man."

CONTINENT-AL NAMES. Hannibal Hamlin's grandfather had 17 children, and he named his four oldest sons *Europe, Asia, Africa, and America*. Hannibal's father's name was *Cyrus*, who had a twin-brother *Hannibal*. Cyrus named his son for his own twin-brother (Hannibal), and Hannibal named his son for his own twin-brother (Cyrus). This second Cyrus (cousin to the second Hannibal) was the missionary to Turkey. The second Hannibal had two brothers (*Elijah* and *Cyrus*) and four sisters (*Eliza, Annie, Vesta, and Hannah*). He is the only survivor of the family, and as vigorous as when his name was linked as "Lincoln and Hamlin." A conceit was familiar at that time (1860):

HAM LIN
LIN COLN.

PRONUNCIATION ON THE WORD "TO." The pronunciation of the word "to" was the cause of an argument between a colored tutor of Turin, Ga., and the father of one of his pupils, which became so heated that a fight ensued and both men were landed in jail. The tutor said "toe" was the right pronunciation, and his adversary said it was "two."

THE MILTON BIBLE, which the trustees of the British Museum have just purchased, is the first Mrs. Milton's Bible. "I am the book of Mary Milton,"—so runs the inscription in the lady's own hand writing. The poet himself, however, has entered the dates of the birth of his children, which are given with commendable precision. Thus: "Annie, my daughter, was born July 29, the day of the monthly Fast, between six and seven, or about half an hour after six in the morning, 1646." Another entry records a fact not often remembered: "My son John was born on Sunday, March 16, at half-past nine at night, 1650." This child, Milton's only son, died an infant, "through the ill-usage or bad constitution of an ill-chosen nurse," as Phillips states.

Benjamin Franklin's Systematic Method.

Franklin found by experience that the *honest intention* to acquire virtuous habits was as effectual as the *speculative conviction* that it was right, and our interest to be virtuous. He tried the following *systematic method*, which we will give in his own words :

"In the various enumerations or the *moral virtues* I had met with in my reading, I found the catalogue more or less numerous, as different writers included more or fewer ideas under the same name. *Temperance*, for example, was confined by some to eating and drinking ; while by others it was extended to mean the moderating of every other pleasure, appetite, ambition, or passion, bodily or mentally, even to our avarice and ambition. I proposed to myself, for clearness, to use rather more names, with fewer ideas annexed to each, than a few names with more ideas ; and I included under *thirteen names of virtues*, all that at that time occurred to me as necessary or desirable ; and annexed to each a short precept, which fully expressed the extent I gave to its meaning. These names of *virtues*, with their precepts, were :

1. TEMPERANCE—Eat not to dulness ; drink not to elevation.
2. SILENCE—Speak not but what may benefit others or yourself ; avoid trifling conversation.
3. ORDER—Let all your things have their places ; let each part of your business have its time.
4. RESOLUTION—Resolve to perform what you ought ; perform without fail what you resolve.
5. FUGALITY—Make no expense but to do good to others or yourself ; *i. e.* waste nothing.
6. INDUSTRY—Lose no time : be always employed in something useful ; cut off all unnecessary actions.
7. SINCERITY—Use no hurtful deceit ; think innocently and justly ; and if you speak, speak accordingly.
8. JUSTICE—Wrong none by doing injuries, or omitting the benefits that are your duty.
9. MODERATION—Avoid extremes ; forbear resenting injuries so much as you think they deserve.
10. CLEANLINESS—Tolerate no uncleanness in body, clothes, or habitation.
11. TRANQUILITY—Be not disturbed at trifles, or at accidents, common or unavoidable.
12. CHASTITY—Avoid injury to your own, or another's peace or happiness.
13. HUMILITY—Imitate *Jesus* and *Socrates*.

My intention being to acquire the *habitude* of all these virtues, I judged it would be well not to distract my attention by attempting the whole at once, but to fix it on *one* of them at a time ; and when I should be master of that, then proceed to another ; and so on till I should have gone through the thirteen ; and as the previous acquisition of some might facilitate the acquisition of certain others, I arranged them with that view as they stand above.

I made a little book in which I allotted a page for each of the virtues. I ruled each page with red ink, so as to have seven columns, one for each day of the week, marking each column with a letter for the day. I crossed these columns with thirteen red lines, marking the beginning of each line with the first letter of each of the virtues ; on which line, and in its proper column, I might mark by a little black spot, every fault I found upon examination to have been committed respecting that virtue, upon that day."

At the end of the first week the page contained fourteen black spots.

The following is the epitaph of Franklin prepared by himself and now to be seen upon his tombstone :

THE BODY
OF
BENJAMIN FRANKLIN
Printer,
(LIKE THE COVER OF AN OLD BOOK,
ITS CONTENTS TORN OUT
AND STRIPT OF ITS LETTERING AND GILDING,)
LIES HERE, FOOD FOR WORMS ;
YET THE WORK ITSELF SHALL NOT BE LOST,
FOR IT WILL (AS HE BELIEVE) APPEAR ONCE MORE
IN A NEW
AND MORE BEAUTIFUL EDITION,
CORRECTED AND AMENDED
BY
THE AUTHOR.

"RAIN, HAIL, AND SNOW." A Massachusetts paper says that Isaiah Thomas, the almanac-maker, when preparing the "annual" of 1780, being asked by one of his boys what he should put in opposite July 13th, for weather predictions (a date overlooked), he replied "anything, anything." The boy returned to the office and set up "Rain, hail, and snow." The country was all amazed when the day came, for it actually rained, hailed, and snowed violently.

The Magical Aphorisms of Eugenius Philalethes.

The Kneph (edited by John Yarker, Manchester, Eng.), publishes these Magical Aphorisms of Eugenius Philalethes, translated by Dr. Wynn Westcott, Hon. IX, Soc. Ros. in Ang., which we give below :

These comprise the Primal and Ultimate Truth.

1. The Primordial existed before all things, even the Mathematical Atom, but was diffusive ; the Monad explicit, and the Myriad implicit. Then Light existed, and so also Darkness ; Principle, and the want of Principle ; All things, and yet Nothing ; Existence, and Negative Existence.

2. The Monad moved itself in the Dyad, and through the Triad ; and the appearance of the second light was produced.

3. Elementary Fire existed uncreate, and beneath the waters clothed itself as with a garment, and became the multiplied Created Fire.

4. By means of reflection from the Superior Fountain, He produced the Inferior Fountain, of a reduced type, with a Triple Countenance.

5. The One created the Unity, and the Trinity distinguished into Triple Form ; a Quarternary became established ; a connection and a medium of reduction.

6. Water then shone forth from visible things, being the female of the Incubating Fire, and the pregnant mother of all Created Things.

7. The Interior Void, the Exterior varied in its coverings ; whose belly was as the revolving skies, and covering the innnnmerable stars.

8. The Creation extended over vast regions, and even as the Offspring was produced, then the Parent disappeared.

9. The Mother, indeed, brought forth the shining Sons, moving over the world of Life.

10. These reproduce the Mother in new forms, whose Fountain maketh music in the Miraculous Grove.

11. This is the Foundation of Knowledge, whoever thou art, thou student of the Mysteries.

12. Father of the whole Creation, generated from the Created Son, by the analysis of the ever-living Son.

Now thou hast the highest mystery of the circle of generation.

He is the Son of the Son, who was the Father of the Son.

Glory be to Deity alone.

QUOD SCIS NESCIS.

AN INSCRIBED STONE UNEARTHED. As two men were digging muck a few weeks ago in the town of Constable, N. Y., they unearthed a stone, about 10 or 12 feet below the original surface of the ground, on one side of which is the following inscription in old-fashioned script characters : " 1612 — O S " The stone weighs 6½ pounds, and was at some time broken, evidently, from a larger rock. It is strati-

fied, of clay formation, and entirely unlike any stone in that vicinity.



The characters on this are about $1\frac{1}{2}$ inches high, or as printers would say, "about 9 lines pica." The "find" is well authenticated, and I send you an excellent photograph of it. Will some of your learned readers inform us who was probably the engraver, who executed the ancient carving, and how it came to be embedded in the clay at the bottom of a muck bed 10 or 12 feet deep. The date is three years subsequent to the discovery of Lake Champlain, and Constable is 60 miles west of the lake, near the dividing line between the States and Canada.

J. K. S., Malone, N. Y.

ARKANSAS, OR ARKANSAW. The New York *Sun* says the Legislature of Arkansas has declared the pronunciation of its state-name to be *Arkansaw*.

NEW RENDERING. In King James' version of the Psalms (LXVIII, 11), the verse reads "The LORD gave the word; great *was* the company of those that published *it*." In the new Revised version it reads "The Lord giveth the word: The women that publish the tidings are a great host." An exchange says the latter rendering is very opportune.

A MAD STONE. W. B. Somers, of Fort Worth, Texas, has a mad stone that has been used over one hundred times, and with success. It has a history. In 1848, Capt. Wilson of Alabama, killed a white deer, and knowing the Indian theory, looked into the deer's stomach, and there found a stone as large as a goose egg that resembled a petrified sponge. This was a mad stone. The Indian theory is that the white deer is more susceptible to vegetable poisons taken into the stomach when eaten with grass, than other animals. To preserve the life of the animal, nature has placed in the stomach this precious stone, which absorbs the poison, neutralizes it, and saves the deer's life. The stone applied to a bite into which poison has been injected, at once draws it out, and when its pores are filled, drops off. Bei soaked in milk, the stone is made pure again, and ready for another application.

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IN

HISTORY, FOLK-LORE, MATHEMATICS,
MYSTICISM, ART, SCIENCE, Etc.

"Go on, and the Light will come to you." — *Jean D'Alembert.*

VOL. IV.

APRIL, 1887.

NO. 4.

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MISCELLANEOUS

NOTES AND QUERIES,
WITH ANSWERS.

"Error belongs to the Libraries, Truth to the Human Mind."—GOETHE.

VOL. IV.

APRIL, 1887.

No. 4.

Curioso in Mathematics.

[By S. F. BURLISON, Onondaga Castle, N. Y.]

SECOND PAPER.

1. It is a well known fact that if three independent parts in any plane triangle be known, the data is considered sufficient to determine all the other parts of the triangle. Some few cases, however, occur in which the formulæ for resolution become so complicated that they closely verge on the impossible. One case which has exercised the ingenuity of mathematicians for the past two hundred years, is the following :

"Given ; l_a , l_b , l_c , the three angle bisectors of a triangle, to determine the triangle."

We believe that the first satisfactory solution of this problem was effected by an American, viz. : by the late James Matteson, M. D., of De Kalb Center, Ill. This indefatigable mathematician assuming that $l_a = 9$, $l_b = 7$, and $l_c = 5$, found that the sides, a , b , and c , of the triangle were

$$a = 8.5019285458, \quad b = 6.18563939732, \quad c = 10.6383454695.$$

In obtaining these results Mr. Matteson found it necessary as a part of his labor to find the root of the following elephantine equation of the 18th degree :

$$\begin{aligned}
& 4863853293243411600n^{18} \\
& + 72620080070811148386n^{17} \\
& + 334913261589752776371n^{16} \\
& + 413683832867884272288n^{15} \\
& - 784869063669922980357n^{14} \\
& - 1894776338268754977296n^{13} \\
& + 492492663846228034751n^{12} \\
& + 2799865335042094447040n^{11} \\
& - 37637016236926118189n^{10} \\
& - 2036669624246887934892n^9 \\
& - 7949980667181728211n^8 \\
& + 76215700931376313008n^7 \\
& + 2736757798029201129n^6 \\
& - 15154528002700115251n^5 \\
& - 3787274179398035875n^4 \\
& + 15483459536861800000n^3 \\
& + 1084242719304765625n^2 \\
& - 654839258089843750n \\
& - 84478769648437500 = 0
\end{aligned}$$

This equation he successfully solved carrying the result to no less than 17 decimal places, and finding that $n = .79917852527151684$.

II. We believe that the following in relation to the triangle is but little less difficult than the case given :

"Given : s_a, s_b, s_c the sides of three inscribed squares in an acute-angled triangle, to determine the triangle."

This problem has no history like the former, for the writer is believed to be its author, and believes that it is here published for the first time. I have studied the subject of the triangle for many years, and have been able to solve nearly all the cases that have occurred to me. This one, however, thus far has baffled all my skill, and it stands as invulnerable to all my attempts at its reduction as the Rock of a Gibraltar.

III. Another noted case in the resolution of triangles is what is known as "Malfatti's Problem." We have in it the sides, a, b , and c , of a triangle given to find the radii of the three circles that are each tangent to two sides of the triangle and to each other. This problem, unlike the other two just given, has yielded in various ways to mathe-

mathematical analysis. No problem, perhaps, relating to the triangle is so celebrated as this. First solved in Italy by Malfatti, it has exercised the ingenuity of geometers of the present century in all enlightened nations; and today it possesses a novelty and intricacy that attracts the aspiring tyro, only to baffle his attempts to master it in all its details. Here, again, an American, the late E. B. Seitz, of Kirkville, Mo., that wonderful genius who perished in his prime, has furnished undoubtedly the most simple and unique formulæ for its solution that the world has yet obtained. His formulæ are :

$$r_a = \frac{1}{2}r(1 + \tan \frac{1}{4}B)(1 + \tan \frac{1}{4}C) \div (1 + \tan \frac{1}{4}A),$$

$$r_b = \frac{1}{2}r(1 + \tan \frac{1}{4}A)(1 + \tan \frac{1}{4}C) \div (1 + \tan \frac{1}{4}B),$$

$$r_c = \frac{1}{2}r(1 + \tan \frac{1}{4}A)(1 + \tan \frac{1}{4}B) \div (1 + \tan \frac{1}{4}C),$$

where r is the radius of the triangle's inscribed circle. If we take $a = 130$, $b = 140$, and $c = 150$, we shall find by the formulæ that

$$r = \frac{5}{2}(17 + 4\sqrt{5} - 2\sqrt{13} - \sqrt{65}) = 26.677279.$$

$$r_b = \frac{20}{7}(17 - 4\sqrt{5} - 2\sqrt{13} + \sqrt{65}) = 25.44823.$$

$$r_c = \frac{10}{3}(17 - 4\sqrt{5} + 2\sqrt{13} - \sqrt{65}) = 24.015.$$

This is the only scalene triangle yet found in this famous problem that admits expressions for the required radii in exact terms.

iv. The following problem is going the rounds in all parts of the Union, being sold on the railroads in packages of candy.

"A boy buys 20 lead pencils for 20 cents; some for four cents each, some for half of a cent each, and some for a quarter of a cent each. How many does he buy of each kind?"

It is said that it is impossible to solve it by arithmetic. This is not true, as all such problems may be solved by alligation, as follows :

One cent being the mean rate, we have,

	(1)	(2)	$By(1) \times 1\frac{1}{4}$	$By(2) \times 7\frac{1}{2}$	Hence.	
$\left\{ \begin{array}{l} 4. \\ \frac{1}{2} \\ \frac{1}{4} \end{array} \right\}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{2}$	$2\frac{1}{2}$	3	} Ana.
		$\frac{7}{8}$		15	15	
	$\frac{4}{8}$		2		2	

v. The sines of the following angles in arithmetical progressions, $15^\circ, 30^\circ, 36^\circ, 45^\circ, 60^\circ, 75^\circ$, bear the following singular relations:

$$(1) \quad \sin 75^\circ \times \sin 60^\circ - \sin 45^\circ = \sin 15^\circ \times \sin 30^\circ.$$

$$(2) \quad \sin^2 15^\circ + \sin^2 60^\circ - \sin^4 45^\circ = \sin^2 75^\circ \times \sin 30^\circ.$$

$$(3) \quad \sin 15^\circ \times \sin 75^\circ \times \sin^2 30^\circ = \sin^2 60^\circ + \sin^2 45^\circ.$$

$$(4) \quad \sin^4 15^\circ + \sin^4 75^\circ = \sin^4 30^\circ + \sin^4 45^\circ + \sin^4 60^\circ.$$

$$(5) \quad \sin^2 15^\circ + \sin^2 30^\circ + \sin^2 45^\circ + \sin^2 60^\circ + \sin^2 75^\circ = 2\frac{1}{2}.$$

From these five equations we may find, if we choose, by elimination and resolution, that—

$$(1) \quad \sin 15^\circ = \frac{\sqrt{3}-1}{2\sqrt{2}}.$$

$$(2) \quad \sin 30^\circ = \frac{1}{2}.$$

$$(3) \quad \sin 45^\circ = \frac{1}{\sqrt{2}}.$$

$$(4) \quad \sin 60^\circ = \frac{1}{2}\sqrt{3}.$$

$$(5) \quad \sin 75^\circ = \frac{\sqrt{3}+1}{2\sqrt{2}}.$$

vi. It is a curious fact that after a rain-storm the depth of water in any paraboloidal vessel set in the open air will be $\sqrt{2}Dr$, where D is the depth of the vessel, and r is the depth of the rain-fall. Thus, if the depth of the vessel be 9 inches, having any radius at its top whatever, and the rain-fall be 2 inches, the depth of water in the vessel will be $\sqrt{2} \times 9 \times 2 = 6$ inches. The vessel will just be caught full whenever the rain-fall is equal to one-half the depth of the vessel.

vii. If a projectile could be thrown from the earth at any angle, subject to the retarding force of gravity only, it would in its range pass over equal spaces in equal times. This is a most singular circumstance and arises, like the preceding truth recorded, from peculiar properties of the parabola, which curve the projectile would take in its flight. To illustrate: If the projectile, by giving it such an angle of elevation and initial velocity that it would be propelled 6000 feet in 10 seconds; then it would pass over each and every 600 feet of this distance in just one second of time, yet all the while be constantly varying in its velocity.

viii. Suspend two balls by strings from the ceiling. Give one a gyratory, and the other a vibratory motion. If the one gyrates in a circle whose plane is a distance d from the ceiling, and the other vibrates in an arc whose lowest point is the same distance d from the ceiling, then the time of a revolution of the former will be just equal to the time of a double vibration of the latter. The time of the rev-

olution and of the double vibration will each be represented by the formula—

$t = 2\pi\sqrt{\frac{R}{g}}$ seconds, where $g = 32\frac{1}{2}$ feet, the force of gravity.

From the principle here given we derive as a corollary the following anomalous truth where no resistance from the air is considered : Were a hole made through the center of the earth, and a body dropped into it, and at the same time another body hurled with such velocity from the same place that it would just go around the earth in a circle, the first body would pass through the earth and return back again in just the time that the other body would go around the earth. Each, moreover, would perform its journey in just the time that a pendulum would make a double oscillation whose length is $R = 4000$ miles, the radius of the earth. That is, the time in each case would be—

$$2\pi\sqrt{\left(\frac{R}{g}\right)} = 5091.24 \text{ seconds.}$$

ix. Archimedes, the celebrated philosopher and mechanic of Syracuse, after completing one of his powerful machines for moving great weights, is said to have exclaimed—

Dòs mót pon otō kal ton kosmon kínroō.

“Give me a place to stand and I will move the world.”

This he might easily have done could he have brought his lever to bear upon it; for it rests upon nothing, impinges against nothing, and floats in space, a body perfectly free to move in any direction. His lever, therefore, would have been a useless thing, as the slightest force when brought to bear upon it would have caused it to move. He need only have stamped his foot, and the ponderous globe would have moved obedient to the impulse. His idea of the subject must have been that the world rested in all its mass like a rock upon some other ponderous body, and that he could apply a sufficient force by his leverage to lift it up and overturn it. His calculations and conclusions were undoubtedly correct, but the element of time he overlooked in his computations.

Calling the diameter of the earth 7920 miles, and each cubic foot of its volume to weigh, as has been estimated, 300 pounds, we find that the earth would weigh 5,765,171,439,574.305,792,000 tons.

Supposing Archimedes could exert a continual force of 30 pounds

at the end of his lever, we find that one arm of the lever must be 384,344,762,638,287,052,800,000 times longer than the other in order that he might move it. Hence in order that he might move the earth to the height of one inch it would have been necessary for him to have moved with the long arm of his lever, 384,344,762,638,287,052,800,000 inches. Now constantly pulling with a force of 30 pounds, he could not with his single-man power have traveled more than 10,000 feet per hour, and at that rate too, not more than 10 hours per day. He could, therefore, at his utmost, have moved his end of the lever but 100,000 feet per day. Hence it may be readily calculated that to have raised the earth only one inch it would have required his continual labor for 8,774,994,580,737 centuries.

x. The invention of the screw is ascribed to Archimedes, and many suppose the exclamation he made about moving the earth was pronounced upon its completion. A discovery of his but little less important than this was that of finding the alloy of metals by means of their specific gravities. King Hiero was suspicious that his crown had been alloyed with baser metals while undergoing embellishments at the hand of his goldsmith. He applied to Archimedes to ascertain the truth, and the old philosopher is said to have discovered the means of doing it while he was meditating in his bath-tub. The excitement of the discovery overcame him, and forgetting all decorum, he is said to have rushed naked into the presence of King Hiero to announce it. His method of weighing metals in air and water, and comparing their relative weights in each with the amount of water displaced, was, indeed, an ingenious discovery, and will never cease to be employed while the elements of earth, air, and water exist.

To illustrate the utility of the method, let us take a practical example as follows :

My ring is an alloy of gold and silver, and weighs 20 pwts. in air, and 18.4 pwts. in water. The specific gravity of gold being 19.24, and that of silver 10.47, find the weight in pwts. of gold and silver in the ring.

Solution. Put $s_1 = 19.24$, the specific gravity of gold.

$s_2 = 10.47$, the specific gravity of silver.

$W = 20$ pwts., the weight of the ring in air.

$w = 18.4$ pwts., the weight of the ring in water.

Its specific gravity will be $s = \frac{W}{W-w} = 12.5$.

Let H = the weight of the gold in ring, and L = the weight of the silver in the ring. We have by the "Archimedean theory":

$$(1) \quad H + L = W. \qquad (2) \quad \frac{H}{S_1} + \frac{L}{S_2} = \frac{W}{S_s}.$$

From these equation we derive that

$$H = \frac{W(S_s - S_2)S_1}{S_s(S_1 - S_2)} = 7 \frac{13769}{109625} \text{ pwts.}$$

$$L = \frac{W(S_1 - S_s)S_2}{S_s(S_1 - S_2)} = 12 \frac{95856}{109625} \text{ pwts.}$$

An Epistle of Jesus the Christ.

A rather odd pamphlet bears upon its title-page the following :

A

COPY OF A LETTER

written

BY OUR BLESSED LORD AND SAVIOUR JESUS CHRIST

and

Found under a great Stone Sixty-five years after His Crucifixion.

London, Printed;

Boston, Re-printed, and sold at the Printing-Office in Marlborough-St.

It is aggravating to a collector of such curiosities to find no date attached to the imprint, but its general appearance indicates an eighteenth century publication. An introductory page says :

"This letter was found eighteen miles from Iconium, sixty-five years after our blessed Saviour's crucifixion, transmitted from the holy city by a converted Jew, faithfully translated from the original Hebrew copy now in possession of the Lady Cuba's family at Mesopotamia. This letter was written by Jesus Christ and found under a great stone, both round and large, at the foot of the cross, eighteen miles from Iconium, near a village in Mesopotamia. Upon this stone was written and engraved, 'Blessed is he that shall turn me over.' All people who saw it prayed to God earnestly and desired that he would make known to them the meaning of this writing, that they might not attempt in vain to turn it over; in the meantime there came a little child, about six or seven years of age, and turned it over without help, to the admiration of all the people that stood by, and under the stone was found a letter written by Jesus Christ, which was carried to the city of Iconium, and there published by a person belonging to Lady Cuba's family;

and on the letter was writren the commandment of Jesus Christ, signed by the Angel Gabriel ninety-eight years after our Saviour's birth."

The letter does not show any peculiar literary merit, nor has it that familiar literary diction of the evangelists. It is quite brief and is here appended.

J. D. PARSONS.

AN EPISTLE OF JESUS THE CHRIST.

Whosoever worketh on the Sabbath Day shall be cursed ; I command you to go to Church, and keep the Lord's Day holy, without doing any Manner of Work. You shall not idly mispend your Time in bedecking yourself with superfluities of Costly Apparel, and vain Dresses, for I have ordained it a Day of Rest ; I will have that Day kept holy, that your sins may be forgiven you ; you shall not break my Commandments, but observe and keep them, written by my own hand ; write them in your Hearts, and steadfastly observe. This was written with my own Hand ; spoken by my own Mouth. You shall not only go to Church yourselves, but also your Man-Servants, and your Maid-Servants, and observe my words and learn my Commandments. You shall finish your labor every last week-day in the afternoon by Six of the Clock, at which Hour the preparation of the Sabbath begins. I advise you to fast five Fridays in every Year, beginning with Good Friday, and to continue the four Fridays immediately following, in Remembrance of the five bloody wounds I received for all mankind. You shall diligently and peaceably Labor in your respective Vocations wherein it has pleased God to call you. You shall love one another with brotherly love, and cause them that are not baptized to come to Church, and have the holy Sacraments, viz. : Baptism and the Lord's Supper, and be mdae Members thereof ; in so doing I will give you long life and many blessings, and your land shall replenish and bring forth Abundance. I will give you many Blessings, and comfort you in the greatest Temptations, and surely he that doth to the contrary, shall be cursed and unprofitable. I will also send Hardness of Heart upon them, till I have destroyed them, but especially upon hardened and impenitent Unbelievers. He that hath given to the Poor, he shall not be unprofitable. Remember to keep holy the Sabbath-Day, for the seventh day I have taken to myself, and he that hath a Copy of this Letter written with my own Hand, and spoken with my own Mouth, and keeps it, without publishing it to others, shall not prosper ; but he that publisheth it to others, shall be blessed of me, and though his Sins be in Number as the stars in the Sky, and he believes in this, shall be pardoned ; and if he believes not in this Writing and my Commandments, I will send my Plagues upon him, and consume both him and his Children and his Cattle ; and whosoever shall have a Copy of this Letter written with

my own Hand, and keeps it in his House, nothing shall hurt him ; neither Pestilence, Lightning, nor Thunder shall do him any hurt ; and if a Woman be with Child and in Labor, and a Copy of this Letter be about her, and she firmly puts her trust in me, she shall safely be delivered of her Child. You shall have no news of me, but by the Holy Spirit, until the Day of Judgment. All Goodness and Prosperity shall be in the House where a Copy of this Letter shall be found.

POQUETANNOC—SIXTEEN WAYS TO SPELL IT. Poquetannoc the little village down on the boundary line between the towns of Preston and Ledyard, about four miles south of Norwich, probably enjoys the distinction of having more different ways of spelling its own name than any other place in Connecticut. The postmark used upon letters coming from that village spells it *Poquetannuck*, but "Poquetannoc" is the form of spelling most frequently used. If, however, neither of these forms satisfies the discriminating taste, a person can take his choice from the following list of fourteen different spellings. The Rev. X. A. Welton, Rector of St. James' Church, at *Poquetannoc*, says that he finds respectable authority for all of them :

1673.	Pocketannuk,	1818.	Paucatonok,
1704.	Paukatannuk,	1819.	Paucatonoc,
1741.	Pockatonnock,	1837.	Poquetannuck,
1773.	Pauquatanok,	1842.	Poquetonnock,
1774. }	Pocatanok,	1853.	Poquetannock,
	Paccatonic,	1885.	Poquetannock,
1784.	Poccatannuck,	1887.	Poquetannoc.

—Norwich (Conn.) *Bulletin*.

"THE LATEST EASTER SUNDAY. No person living ever ate an Easter dinner (except in 1886) on the 25th of April. No person born since 1818 ever saw an Easter on the 22d of March. April 25 is the *latest*, and March 22 the *earliest* possible time of Easter. The last time that Easter came on the 25th of April was in 1736, when George Washington was four years old, and innocent of the hatchet performance. The next latest Easter date of April 25 will be in 1943. The Easter of 1886 on the 25th of April, was 150 years since the last time, and 57 years before the next time for Easter at its latest date. The next Easter as late as April 24, will not be till after the year 2000 A. D. The latest Easter on April 24th was in 1859. The next recurrence of Easter on the earliest possible date of March 22, will not be till after 2000 A. D. The dates for Easter impossible before the year 2000 are March 22 and 26, April 22 and 24. This year Easter falls on the 10th or April."—N. B. WEBSTER in Norfolk (Va.) *Herald*.

Epochs, Eras, and Periods of the World.

The following summary shows the correspondence of the principal epochs, eras, and periods with that of the Christian era :

	B. C.
Grecian year of the world	September 1, 5598
Ecclesiastical era of Constantinople	March 21, or April 1, 5508
Civil year of Constantinople	September 1, 5508
Alexandrian era	August 29, 5502
Ecclesiastical era of Antioch	September 1, 5492
Julian period	January 1, 4713
Mundane era	October, 4008
Jewish Mundane era	Vernal equinox, 3761
Civil Jewish era	October, 3761
Era of Abraham	October 1, 2015
Destruction of Troy	June 12, or 24, 1184
Building of Solomon's Temple	May, 1015
Era of the Olympiads	New moon of Summer solstice, 776
Roman era, foundation of Rome,	April 21, 753
Era of Nabonassar,	February 26, 747
Epoch of Daniel's 70 weeks	Vernal equinox, 458
Metonic cycle	July 15, 432
Calippic period	New moon of Summer solstice, 330
Philippean era	June, 323
Syro-Macedonian era	September 1, 312
Tyrian era	October 19, 125
Sidonian era	October, 110
Cæsarean era of Antioch	September 1, 48
Julian era	January 1, 45
Spanish era	January 1, 38
Action era	January 1, 30
Action era in Egypt	September 1, 30
Augustan era	February 14, 27
Pontifical indiction	December 25, or January 1, 3
Indiction of Constantinople	September 1, 3
	A. D.
Christian era	January 1, 1
Destruction of Jerusalem	September 1, 69
Era of the Maccabees	November 24, 166
Era of Dioclesian	September 17, 284
Era of the Ascension	November 12, 295
Era of Martyrs	February 23, 303
Era of Armenians	July 7, 552

Era of the Hegira (the <i>flight</i> of Mohammed)	July 16, 622
Era of Yezdegird, or Persian era	June 16, 632
Era of Materialists (E. M.)	1600
American Independence	July 4, 1776
Era of Modern Spiritualism (M. S.)	1847
Kosmon Era (Faithists' Calendar)	December 23, 1848
Year of Love	1872
Era of N. D. C. (Nat. Dev. Circle)	1884

MASONIC ERAS.

	B. C.
{ A. V. L. (<i>An du Vrai Lumière</i>) Year of True Light, }	000,000,000
{ Used by the Antient and Primitive Rite, A. F. & A. M., }	
A. L. (<i>Anno Lucis</i>) Year of Light	4000
A. H. (<i>Anno Hebraico</i>) Year of the Hebrews	September 16, 3760
A. D. (<i>Anno Depositionis</i>) Year of the Deposits	1000
A. O. (<i>Anno Ordinis</i>) Year of the Order (Knights Templar)	1118
A. I. (<i>Anno Inventionis</i>) Year of the Discovery	530
	A. C.
Knights of the Red Cross of Rome and Constantine	312
A. C. (<i>Anno Cadio</i>) Year of Destruction (catastrophe of Ks. T.)	1313
A. R. (<i>Anno Revive</i>) Year of the Revival	1686

[From OAHSPÉ, *I Book of God*, Chapter xxv, Verse 4.]

"CHIAWASSAIBAKANALSZHOO was the son of
TENEHAMGAMERALHUCHSUKZHAISTOMAIPOWASSAA,
who was the son of THUSAIGANGANENOSATAMAKKA, who built the
great east canal, OSEOWAGALLAXACOLA, in the rich valley of
TIEDASWONOGHASSIE, and through the land of
SEGANE OGALGALYALUCIAHOMAAHOMHOM [most likely Louisiana and
Mississippi] where dwelt the large men and women, the
ONGEWAHAPACKAKA-GANGANECOLABAZKOAXAX."

NOTE—"DIAMOND-POINTED PENS." (Vol. IV, p. 239.) The quotation from Jeremiah (xvii, 1,) "written with a pen of iron, and with the point of a diamond," cannot properly be applied as given on page 239 of this volume. So-called diamond-pointed pens are tipped with *irid-osmium*, a natural alloy of rare metals possessing great hardness, and a substance which Jeremiah knew nothing about! The Hebrew word in Jeremiah (*schmir*) signifies a very hard stone, and is translated elsewhere as "adamant." Diamonds were probably unknown in Jeremiah's time.

DJAFAR.

SINGLE-SONG WRITERS. The following persons are known to fame from the fact that some one single production from their pens have endeared and immortalized their names :

1. Thomas Gray (1716-1771), "Elegy written in a Country Church-yard."

Lord George Byron says, "Had Thomas Gray written nothing but his Elegy, high as he stands, I am sure he would not stand higher; it is the corner-stone of his glory."

2. William Falconer (1730-1769), "The Shipwreck."

3. James Beattie (1735-1803), "The Minstrel."

4. Augustus Montague Toplady (1740-1778), "Rock of Ages."

5. Robert Bloomfield (1766-1823), "The Farmer's Boy."

6. Charles Wolfe (1791-1823), "The Burial of Sir John Moore."

This was pronounced by Lord Byron "the most perfect ode in the language."

7. Joseph Rodman Drake (1795-1820), "The Culprit Fay."

8. Fitz-Greene Halleck (1790-1867), "Marco Bozzaris."

9. Samuel Woodworth (1785-1842), "Old Oaken Bucket."

10. George P. Morris (1802-1864), "Woodman, Spare that Tree."

11. Charles Sprague (1791-1875), "Ode on Shakespeare."

12. Richard Henry Wilde (1847-), "My Life is Like a Summer Rose."

13. Edward C. Pinckney, "I fill a cup to one made up."

14. Richard Henry Dana (1789-1879), "The Buccaneer."

15. Francis Scott Key (1790-1843), "Star-Spangled Banner."

16. Rouget de L'Isle, "La Marseillaise."

17. John Howard Payne (1792-1852), "Home, Sweet Home."

18. David Everett (1769-1813), "You'd scarce expect one of my age."

19. Reginald Heber (1783-1826, "From Greenland's icy mountains."

20. Julia Ward Howe (1819-), "Battle Hymn of the Republic."

21. William Allen Butler (1825-), "Nothing to Wear."

22. Francis B. Harte (1839-), "Heathen Chinese."

23. Emma C. Willard (1787-1870), "Rock'd in the Cradle of the Deep."

24. William Wetmore Story (1819-), "Cleopatra."

25. Horace Smith (1779-1849), "Address to an Egyptian Mummy."

26. Thomas Dunn English, (1819-), "Ben Bolt."

27. Clement Clarke Moore (1779-1863), "Visit of St. Nicholas."

28. Joseph Hopkinson (1770-1842), "Hail Columbia."

Questions and Answers.

HOW MANY SONS HAD SOLOMON? Can you tell us how many sons Solomon had? What is the meaning of the name Solomon? What was the population of the children of Israel in his reign?

JOSEF.

We can only give this questioner what is given in the Book of Kings (xiv, 21, 31) with the help of the encyclopædias.

Rehoboam was the only son of Solomon by the Ammonite princess Naamah, and his successor to the throne, says McClintock & Strong. The Hebrew word for Rehoboam is *Rechabâm*, and means "enlarger of the people"; in Exodus xxxiv, 24, it is translated "enlarge thy borders." Greek (Septuagint version), *Robodm*; but the Greek word for this name is *Eurydemos*. Josephus gives the name as *Roboamos* in the Greek (Ant. Bk. VIII, ch. viii, v. 1).

The visit of the Queen of Sheba furnished some three or four romances. The Koran narrates her visit, her wonder at the magnificence of Solomon, her conversion to Islamism, which he professed. The Arabs claim she came from Yemen: the Æthiopians claim she came from Meroe. In each form of the narrative it is said that she had a son by Solomon who was called *Meilekh*; John Kitto gives the name as *Menilek*. In the Æthiopian version, he is called *David* for his grandfather, and was the ancestor of a long line of Æthiopian kings. Kitto says David was his title as David I; his successor being David II. It is said that 12,000 Hebrews accompanied Balkis the Queen of Sheba on her return to home, and from them were descended the Jews of Æthiopia; and the great Prester John of mediæval travelers descended from them.

The twelve tribes of Israel over which Solomon reigned, were divided under his son and successor Rehoboam; the tribes Benjamin and Judah remaining subject to Rehoboam; these two tribes numbered:

Judah, 74,600; Benjamin, 35,400; Total, 110,000.

The ten other tribes revolted and chose for their king Jeroboam (Hebrew *Yarabam*, "increase of the people"); Josephus calls him *Jeroboamos*. He reigned over the kingdom of *Irsael*. These tribes were as follows:

Asher,	41,500	Issachar,	54,400	Simeon,	59,300
Dan,	62,700	Manasseh,	32,200	Zebulon,	57,400
Ephraim,	40,500	Naphtali,	53,400		
Gad,	45,650	Reuben,	46,500	Total,	593,550
Rehoboam, Kingdom of <i>Judah</i> , two tribes,					110,000
Jeroboam, Kingdom of <i>Israel</i> , ten tribes,					593,550
Total,					703,550

These figures, however, are those of the encampments known as the children of Israel. In Solomon's time they must have been far more numerous. Forty years previous to the schism the fighting men in Israel numbered 800,000, and in Judah 500,000 (II Sam. xxiv, 9), which together are 1,300,000.

Rehoboam's army, 180,000 men (I Kings xii, 21).
 Jeroboam's army, 800,000 men (II Chron. xiii, 3).

Abijah, successor to Rehoboam, had an army of 400,000 and stood ready to attack Jeroboam's army of 800,000.

The name Solomon in Hebrew is *Shelomoh* and mean "peaceful, or pacific." The Greek is *Solomon*; the Latin is *Salomo*. The name given him by Nathan the prophet was *Jedidiah* (II Sam. xii, 25), in Hebrew *Yedideyah*, meaning, "beloved." There have been other interpretations given to the name. One is that the name Solomon is composed of the words: *Sol-Om-On*. *Sol*, the Sun; *Om*, the sacred name in the East among the Buddhists and Brahmins; and *On*, one of the sacred names of God. In Revelation i, 5, the Greek reads: *On, kai o'en kai o'erchomenos*, and translated in the common version: "Him, which is, and which was, and which was to come." *On* is translated by *Him*. The word *On* also means sun, and was given as a name to the ancient city of Egypt, *Heliopolis*, "City of the Sun." In Genesis xli, 45, Heliopolis is translated by *On*. Hence it is supposed by some that Solomon (*Sol-om-on*) was a worshipper of the sun.

ANCIENT ETRURIANS. What is really known historically and ethnologically of the ancient Etrurians? Z.

The Etrurians have constituted one of the enigmas of history. Tradition identified them with the Lydians; but in language there was little resemblance between the two peoples. The endeavor to show them Pelasgic has long been given up. Their designation of *Rasena* is apparently from the Semitic term *rasa*, chief; but it may

only mean primitive. Their god Janus it will be remembered was *priscus*, or old. The following inscription on a libation-bowl indicates their relationship as far as language is concerned:

EKUTHUTHIIALZRECHUVAZESULZIPULTHESUVAPURTI-
SURAPRUEUNETURAREKETI.

Several able archeologists tried their hand at this "atrocious spell" to little purpose. With no knowledge of the language except conjectural, the division into words was impossible. The Œdipous for this Sphinx finally appears in the person of Mr. Robert Brown, Jun., Prestgate House, Barton-on-Humber, England. Mr. Brown has been a very diligent student of Oriental learning; and his treatises entitled *Poseidôn*; *The Great Dionysiak Myth*; *Aratos*; *The Unicorn*; *Law of Cosmic Order*; *Myth of Kirke*; *Eridanus*; and *Zoroaster*, are most valuable. Of later years he has been pursuing investigations into the literature of Sumir and Akkad, and made himself a master of the cuneiform characters and the figurative oriental style. The Akkadians, a Turanian people cognate with the Chinese were early occupants of the Euphrates valley, and the Semitic Assyrians adopted their religion and mythology. The same analogy holds completely in the relations of the Etrurians to the early Romans. Mr. Brown accordingly endeavored to interpret the inscriptions, using the Akkadian as his key. The following shows his success:

<i>Etruscan.</i>	EKU	THUTHII	AL	Z	RECHU
1. <i>Akkadian—</i>	<i>Aku</i>	<i>Tutu</i>			<i>rakki</i>
<i>English.</i> —	O Moon! of the setting sun daughter the queen				
	VA	ZEL			
	<i>va</i>	<i>Zer</i>			
	and of-the-desert				

	ESULZI	PULTH	ESU	VA	PURTISURA
2.	<i>Essakam</i>	<i>Pul</i>	<i>essa</i>	<i>va</i>	<i>Pul Zur</i>
	Triple	Revealer!	thrice	and	Sovereign lady?
	PRU	E	UNE	TURAREK	ETI
3.	<i>Pur.</i>	<i>a</i>	<i>unc</i>	<i>turr-kir</i>	<i>essi-b</i>
	On the ground water I pour out to the Lady Moon.				

The close resemblance of the Etruscan and Akkadian words is as

significant as remarkable. Mr. Brown traces also the names of divinities nearly alike in the two languages. It appears evident, therefore, that the two peoples were affiliated; and neither of them Aryan nor Semitic.

A. WILDER, M. D., Newark, N. J.

GAME OF GOLF.—“GITTING IN TO A SCRAPE.” (Vol. IV, p. 252.) The Game of Golf is very popular in Scotland and England. It consists essentially in driving a ball by the aid of golf-sticks into a series of small holes placed irregularly, hundreds of feet apart and in uneven ground. He who drives the ball around with the fewest strokes is the winner. Do the readers of your magazine know of this game being played in the United States or Canada? If so, the address of a Golf-club is desired.

DJAFAR.

Royal Montreal Golf Club founded 1873. Officers: G. A. Drummond, captain; D. D. Sidney, treasurer; James Aud, secretary, address Bank of Montreal, Montreal, Can.

The phrase, “getting into a scrape,” is said (*Book of Days*) to refer to this game which is usually played upon downs where there is an abundance of rabbits. One of the golf-player’s troubles is the little hole a rabbit makes in the sward in its first efforts at a burrow. This is called a rabbit’s scrape. When the ball “gets into a scrape,” it can scarcely be played; and the rules of golf indicate certain allowances to a player when he gets into a scrape.

WALTER H. SMITH, Montreal, Can.

MOTHERING SUNDAY. (Vol. IV, p. 254.) Why is Mid-lent Sunday called “Mothering Sunday”? X. Y. Z.

According to Brand (*Popular Antiquities*, Vol. I), it was formerly the custom for people in England to visit their *Mtoher Church* on Mid-Lent Sunday, and to make their offering at the high altar. According to Cowel (*Law Dictionary*) the practice of mothering, or visiting parents on this day is also owing to the visit paid on the day to the *Mother Church*, as well as taking its name from the words of the Epistle for the day, Galatians iv, 26, “Jerusalem Mater Omnium.”

WALTER H. SMITH, Montreal, Can.

DEMOCRITUS — “THE LAUGHING PHILOSOPHER.” (Vol. IV, 253.) Who was called the “Laughing Philosopher,” and why? W. E. M.

Democritus was called the Laughing Philosopher because of a tradition that he was always laughing at the follies of mankind.

DJAFAR.

New Books and Pamphlets Received.

THE LAW OF LAWS ; The Overshadowing Power of God. A Synopsis of a New Theory. By the Order of the New Life. Published at the Remedial Institute and School of Instruction, 537 Broadway, Quincy, Ill. Royal 8vo ; pp. 115. The work is an exposition of the principles so fast developing in this new age of mental power over all human diseases. It says that it commences where all other advanced lines of thought terminate. It complements and is a vital part of all known truth ; and yet it is unencumbered by references, to or citations from, any human authority. It reveals the same orderly method of creation in the domain of Mind that geology unfolds in the realm of Matter. It claims to settle many of the mooted questions in religion and science. The oncoming of the Universal Christ in the souls of men is shown as the ultimate redemption of the race, and many other subjects of foremost interest to all mankind. The book is sent for \$1.00, postpaid. With charts and plates, \$1.50.

The "Overshadowing Power of God," a much fuller statement of the principles outlined in the above work, and a history of the experiences which led to The Law of Laws, in one volume, 8vo, pp. 550, with map and illustrations, bound, \$2.50.

CHRIST UNEIVLED—His Heavenly and Earthly Appearing. By Anna J. Johnson, author of *The Healing Voice*. Cloth, 8vo, New York, 1857. Price \$1.00. The contents are : Veil Lifted ; Procreative Law ; Duo-decimal Principle in Creation ; Genesis of Life ; Twelves Attributes of God in Man, in Spiritual Correspondence with the Twelve Signs of the Zodiac ; Numerical Language of Sounds. This book is of interest to all who seek the spiritual light of mind over mind, and the eradication of disease from humanity, spiritual and physical. It explains and applies symbolism to the spiritual world and confirms its applications by many quotations from the Divine Teacher. Musical harmony is very aptly shown in the closing chapter. Buy the book and study the laws it develops, and light will come to you. Address the author, 200 West 59th Street, New York City.

AMES' COPY SLIPS for instruction in writing. Published at the office of the *Penman's Art Journal*, 205 Broadway, New York City, and sent by mail to any address for 50 cents. All persons who desire to improve their penmanship, and those who desire to learn to write should possess these slips, 32 in number.

RADICAL REMEDY IN SOCIAL SCIENCE ; or borning better babies through regular reproduction. An earnest essay on pressing problems. By E. B. Foote, Jr.. Price 25 cents.

ILLUSTRATED TREATISE ON GYNECOLOGY ; or diseases of women. By E. B. Foote, Jr. Address Murray Hill Publishing Company, 129 East 28th Street, New York City.

THE DREAMER'S TEACHER AND ONEIROCRITICA, containing, the condensed gleanings of the Ages in Dream Literature; Narratives in Remarkable Dream and Vision Experiences and events which followed; Rules for dream Interpretation; Dream and Vision Language Defined. The only work in existence which can be applied to common experiences in dreaming. By James Monroe, editor of the late *Dream Investigator*. Sent by mail on receipt of \$1.00. Address the author, Lock Box 647, Peoria, Ill. Correspondents and subscribers to the above magazine will be furnished at half price.

THE NEW KING OF KANSAS. A Sketch by Geo. E. Tewksbury, of Topeka, Kan. "But wherefore did he take the crown?"—*2d King Henry IV.* Illustrated in colors. Gives an inviting description of the state and its products. Handsomely executed. Closes with the remark of Don Adriand De Armado—"I will kiss thy Royal finger and take leave. I am a Voluntary." The proclamation at the end is signed in the presence of Trumpeter Millet, Chamberlain, GRASS, REX.

TAKIGRAPHY. New Style. One of the best known and most successful of American authors of shorthand systems, Mr. D. P. Lindsley, now of Philadelphia, announces a new style—not a new system—especially adapted to literary uses, to correspondence, and general business purposes, outside of professional shorthand work. This has been Mr. Lindsley's leading object from the first, but he has never before fully completed his plan. He now announces a text-book embodying his new scheme. D. P. Lindsley, No. 817 North 45th St., Philadelphia, Pa.

MODERN LANGUAGES IN EDUCATION. By Geo. F. Comfort, Dean of the Colleges of Fine Arts in Syracuse (N. Y.) University. 16mo, pp. 40. price, 25c. C. W. Bardeen, publisher. Paper read before the American Philological Association, and a strong argument in favor of modern instead of ancient languages.

ANGLO-SAXON METROLOGY. "Why we do not adopt the French Metrical System in place of Our Anglo-Saxon Metrology." By Christopher Giles, with an introduction by C. Piazzzi Smyth, Astronomer-Royal for Scotland. Published by Robert Banks and Son, Racquet Court, Fleet Street, London, E. C. This pamphlet is a strong argument against the adoption of the Metric System of Weights and Measures. Price, sixpence. pp. 48.

HISTORY OF BIRD'S MOUNTAIN MONUMENT, 2500 feet above the level of the sea, including a full report of laying the corner-stone on August 27, 1886, by Grand Master of Vermont, A. F. & A. M.; and the address delivered on the summit by Henry H. Smith, P. G. Master; also, a list of the bricks presented. Compiled by John M. Currier, M. D., Sec. of Lee Lodge No. 30, Castleton, Vt. 1887. pp. 82.

PROCEEDINGS OF RUTLAND COUNTY HISTORICAL SOCIETY. Epitaphs of Castleton (Vt.) Church-yard. 8vo., pp 50. From J. M. Currier.

PHYSICS AND METAPHYSICS — THEIR RELATION TO EACH OTHER. A pamphlet by Mrs. M. M. Phelon, 629 Fulton Street, Chicago, Ill. This is a concise exposition of some the soul questions of the day in relation to diseases. The "Oriental Christ" says: "Let humanity once realize the Infinite Love, and they will be able to heal all mankind." See advertisement on page VIII of our appendix.

MONDAY-EVENING CLUB—PROCEEDINGS — Haverhill, Mass. 25th Anniversary, November 19, 1885. An elegant specimen of the art of printing. Contains the anniversary, and historical addresses, papers, poems, letters read, list of members etc. Received from Maurice D. Clarke, M. D., Haverhill, Mass.

THE MORMON QUESTION—Social Problems of To-day, in their Economic Aspect. A study of coöperation and arbitration in Mormonism, from the standpoint of a wage-worker. By a Gentile, author of "Utah and its People." Octavo, pp. 92. Received from Dyer D. Lum, Chicago, Ill.

THE NEW CHURCH—Its Ministry, Laity and Ordinances, with an appendix on Intoxicants and our New Church Periodicals. By John Ellis, M. D., author of various works on kindred subjects. He dis-favors the use of wine in all forms in the Eucharist and ceremonies of the church sustaining his views by Scripture and medical science. 12mo, 22. 124. Published by the author, New York, 1886.

THE COSMOSPHERE, OR MINIATURE UNIVERSE. — A Manual. By F. H. Bailey, inventor of the Cosmospere, and of the Astral Lantern, or Panorama of the Heavens. The manual is to aid with the use of the instrument, dividing the subject into 22 suggestions, showing how to find Right Ascension, Declination, Longitude, Latitude, Eclipses, Precession of the Equinoxes. From the author, Northville, Mich

NARRATIVE OF AMOS E. STEARNS, a Prisoner at Andersonville, member of Co. A, 25th Reg. Mass. Vols. Introduction by Samuel H. Putnam. Portrait, 8vo., pp. 58.

NEW ENGLAND EMIGRANT AID COMPANY, and its Influence through the Kansas Contest upon National History. By Eli Thayer. 8vo., pp. 48. Two lectures before the Worcester Society of Antiquary.

WORCESTER MAIN STREET, 63 YEARS AGO. By Henry H. Chamberlin. From Proceedings of Worcester Society of Antiquary. 8vo. pp. 24. Published by Franklin P. Rice, Worcester, Mass., and received from him.

THE COLUMBIA BICYCLE CALENDAR FOR 1887. An artistic work of convenient art, the calendar is worthy a place in every household, library, and office. Each day of the year upon separate slips with a quotation pertaining to cycling, cycling events, cycling poems, etc. Pope Manufacturing Co., Boston, Mass.

GASKILL'S ILLUSTRATED MAGAZINE. Ninth year. Home Education Family Circle, Penmanship, Drawing, Bookkeeping, Shorthand, Biography, Travels, and Home Amusements. Quarto; \$1.00 a year. By The G. A. Gaskill Co., Chicago, Ill. A. J. Scarborough, editor.

New Exchanges.

BUCHANAN'S JOURNAL OF MAN. Commenced February, 1887, and edited and published by Prof. J. R. Buchanan who formerly stood at the head of the leading medical college of Cincinnati. It is devoted to human progress generally, and more especially to the New Science of Man, developed from investigations of the brain, which explains the modern wonders of spiritualism, animal magnetism, mind-reading and matters akin to these phenomena, and makes a great revolution in medical science, education, and philosophy. Published monthly at 6 James Street, Boston, Mass., a \$1.00 a year.

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THE SWISS CROSS is a monthly magazine of the Agassiz Association, commenced January, 1887, to meet the wants of the members of this society, and a large class of persons interested in the personal study of nature. The association is composed of several thousand members throughout the world. Published by N. D. C. Hodges at 47 Lafayette Place, New York City, at \$1.50 a year.

NEW JERUSALEM MAGAZINE is published monthly under the auspices of the Massachusetts Association of the New Church (Swedenborgian). Its object is to promote the reception of Mind and Life of the truths of the New Church, contained in the Holy Word, and set forth in the writings of Emanuel Swedenborg. "The two essentials of the New Church are, that the Lord alone is the God of Heaven and Earth, and that conjunction with Him is through a life according to the commandments of the Decalogue." Published at \$2.00 a year. Clergymen and students, \$.200. Address 169 Tremont Street, Boston, Mass.

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THE WORLD'S ADVANCED-THOUGHT. "Love is the Principle of Union between God and Man." Monthly, folio, at \$1.00 a year. Commenced April 5, 1886. The first number begins, editorially, "Good Morning! Prophetic morning! The grandest, brightest morning that ever dawned over mother earth." The plans are submitted and elaborated. The mysteries of all times, past, present, and future, are discussed in this able sheet. The spiritual Messiahs of the past are prototypes of the future. The paper is in departments: Impressions, Material Matters, Phenomenal Matters, Voice of Prophecy; and announces that it is the *Avant-Courier* of the New Dispensation. The Sivarthian Theology is discussed at length and illustrated with phrenological, physiological, and psychological cuts. It must be read to be appreciated. Subscribe for it at once. Terms, \$1.00 a year, and published at Salem, Oregon.

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THE STAR AND CRADLE is published by the same firm. It is the organ of "The New Life—A Mirror of the Future. Price, one penny. Weekly, and devoted to the coming Lord, and new dispensation.

THE OPEN COURT. A Fortnightly Journal devoted to the work of establishing Ethics and Religion upon a Scientific Basis. Commenced February 17, 1887, at Chicago, Ill. B. F. Underwood editor, and Sara A. Underwood, associate editor. Terms, \$3.00 a year. Address the editor, P. O. Drawer F, Chicago, Ill. The editor, B. F. Underwood, was editor of *The Index*, Boston, Mass., for many years, which has been absorbed with the new journal. Its salutatory says that it will be thoroughly independent, while at the same time it will give a fair hearing to representatives of the various schools and phases of thought; it will assert its own convictions with frankness and vigor; it will aim to be liberal in its broadest and best sense. A journal devoted to equal and exact justice for all, irrespective of religious belief, cannot be without a mission. Moncure D. Conway will furnish articles on "Unitarianism and its Grandchildren"; W. D. Gunning, on "The Incomplete"; Wm. J. Potter, Felix Adler, and many other well known writers will be constant correspondents.

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ASTRONOMY AND METEOROLOGY. Quarto, monthly; 10 cents each. Published by Walter H. Smith, 31 Arcade St., Montreal, Canada. \$1.00 a year. Devoted to science of the weather, and meteorology.

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THE GRANITE MONTHLY. A New Hampshire Magazine devoted to Literature, History and State Progress. Conducted by John N. McClintock, Concord, N. H. \$1.50 a year. Volume X commenced January, 1887. Some of the back volumes can be supplied. Some of the leading men of the state furnish the magazine with historical articles.

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THE **ETZARRE**.

MAY 10 1887

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IN

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VOL. IV.

MAY, 1887.

NO. 5.

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POLITICAL EPITHETS. (Vol. IV, p. 223.) I read Mr. Wiggoner's article on "Political Epithets" with much pleasure. I beg leave however, to submit a few suggestions.

ANTI-MASONS. The death of William Morgan, was the occasion of the formation of the Anti-Masonic party. This brings its date to 1827. William Wirt in 1832, and William Henry Harrison in 1836, were its presidential candidates. William H. Seward, Millard Fillmore, Thaddeus Stevens, Joseph Ritter, and Thurlow Weed, were members of that party. In 1828, Thomas Armstrong, a Mason, represented Wayne County, New York, in the Assembly. After a few days of service he changed his boarding-place, because there were so many Anti-Masons there as to make the house unpleasant. "But," said his interrogator, "up here are Gen. P. B. Porter, Francis Granger, and the very leaders of Anti-Masonry." "But," replied Armstrong, "those fellows down there believe in it."

BLUE-BELLIES. This term was used years ago to denote an extreme Calvinist. I have heard it applied to orthodox (hard-shell) close-communion Baptists.

BOURBON DEMOCRATS. The democrats who held obstinately to the old ways,—Hard-shell Hunkerism, Peace at any Price, and no "new departure" or fusion with any parties, were called Bourbons in 1872. They would not support Mr. Greeley. The name was used in reference to the declaration in regard to the three Bourbon dynasties of Europe—they forgot nothing and learned nothing.

BUNCOMBE. A member of Congress from the Buncombe County district, North Carolina,—some say Gen. Thomas L. Clingman—was making a speech, when the point was raised that he was not speaking on the question before the House. "I am not talking for this House," he explained, "I am talking for Buncombe."

BUTTERNUTS. The home-made butternut dye was used in the South when the rebellion broke out, instead of the more fashionable colors. Accordingly, in 1861 and 1862, the democrats in reputed sympathy with the South were nicknamed "Butternuts." I remember when Ohio in 1862 elected democratic state officers, and also 13 out of 18 Members of Congress, the leading paper at Columbus boasted that "Butternut is a fast color."

CAUCUS. The word is a corruption of "calkers." In Boston before the Revolution, private meetings of the Sons of Liberty, it is said, were held at the Calkers' Hall.

COPPERHEADS. This name, I think, was first used in Maine to denote those who left that state in 1862, to evade the draft. It was supposed to be taken from the snake that bears the appellation, as an opposite to rattlesnake which the southern people had a strong proclivity for. But I have since seen that it referred to the copper-head of Liberty on the cent. The name superseded that of Butternut in 1863, and finally lost much of its odium.

CREDIT MOBILIER. This was a corporation whose charter was granted by the legislature of Pennsylvania to George Francis Train, and proposed to be a sort of institution for lending on movable property. The charter fell into the possession of Mr. Oakes Ames, and the organization was operated to construct the Pacific Railroad. Mr. Ames was one of those men who believed that anything that is legal is for all practical purposes right. There was a congressional investigation after that in which fair names were sadly smirched. Yet, curiously enough, construction companies of similar character still build the railroads, and the voice of blame is silent. Why?

DOUGH-FACES. This term came from the days of the Missouri Compromise.

FIGHT-IT-OUT-ON-THIS-LINE. General Grant's famous despatch from the Wilderness contained the sentence, "I propose to fight it out on this line if it takes all summer." He did not so fight it out however; and besides, it took all winter.

HUNKERS. The democrats of the School of Dickinson, Bronson, Marcy, and Horatio Seymour in New York. Derived from the German *Yunker*.

KU-KLUX-KLAN. There was a secret organization in the period of the civil war, known as Knights of the Golden Circle. Doubtless the "Klan" was the same character. *Kuklux* is evidently from the Greek *kuklos*, a circle; and *klan* the old Celtic *clan*.

LIBERTY-CAPS. The red cap of the Bacchic worshippers. It was worn at the rites of the Great Mother in Asia, and came to denote the freedom which then prevailed. A book was *liber*, and book-learned men were *free* from capital penalties, by benefit of clergy. A son, too, was a *liber*. Bacchus was denominated *Liber* in Italy. In the French Revolution the *bonnet rouge* was a republican badge. I apprehend we shall wear it here yet.

I hardly accept the Gessler-cap story. There was no William Tell, except as a myth, and Gessler dies with it.

PIPE-LAYING. This term originated in 1840. The Croton water

had not been introduced into New York, but the contractors were laying the pipes. It was charged that Moses H. Grinnell and other leading whigs in 1838 were parties to a political trick by which workmen from outside the State of New York were employed on that work, in order to procure their votes. The artifice was to give them democratic ballots from which the names had been erased with a fine pen-stroke, and the names of whig candidates had been written instead. This was made public two years later, and hence the term pipe-laying passed into politics.

POPULAR SOVEREIGNTY. The terms "squatter sovereignty," and "popular sovereignty" were first employed in the matter of the Kansas-Nebraska bill of 1854. It was asserted that that bill gave the settlers the power to determine for themselves whether slavery should or should not exist there; and the Missouri Compromise was repealed which had prohibited the institution. Despite the professed establishment of "popular sovereignty," Mr. Douglas had not precisely defined the matter, and the attempt of "Border Ruffians" to drive free-state men forcibly from Kansas, and the endeavor of the Federal Administration to further their project, were the consequence. The prowess of John Brown of Ossawatimie virtually terminated the Border Ruffian violence, after which the overthrow of slavery there became certain. The civil war grew out of it; since which time centralization and encroachment upon the reserved rights of the people, have steadily extinguished even the notion of popular sovereignty.

RED-DOG MONEY. In the State of New York prior to 1838 all banking corporations were chartered directly by Act of the Legislature. The result was that only such as were in favor with the dominant political party were permitted to organize. Scandal too was rife that bank stock was distributed to members of the legislature who voted in favor of incorporating such institutions. With the disaster of 1837 the whigs gained the Assembly, and a General Banking Law was promptly enacted. The notes issued by the new corporations were stamped red on the back; hence the nickname to distinguish them from the old "Safety-Fund" issues. The National Currency Act is but an expansion of the New York law.

UP SALT RIVER. This is a phrase sometimes attributed to David Crockett of Tennessee. Salt river is a very crooked stream full of obstructions and so difficult of navigation as to be almost impossible

even to sail down it. Hence a politician, "towed up Salt river," was virtually stranded beyond hope.

WHIGS. A British political designation originating in 1648. It was a cattle drovers' cry synonymous with "whey" as used in this country. The term whigamore became a designation of the Scotch Presbyterians; and finally in the reign of Charles II, the advocates of Parliamentary authority were denominated whigs, and the supporters of the royal prerogative were called *tories* or robbers. In the colonial controversy with George III, the loyalist party were called *tories* and the "Sons of Liberty" whigs. These words were dropped after 1783. The attempt however was made to revive them in the war of 1812 as distinctions of the War and Peace parties; afterwards known in New York as "Bucktails" and Clintonians; but it fell still-born. After, however, the democratic party of later day, had organized around General Jackson, absorbing the democrats of the old Federal party, the disaffected members of his party, like H. L. White, John Tyler, J. W. Webb, M. M. Noah, and others, coalesced with the National Republican organization of Monroe, Adams, and Clay, to form the Whig Party. This was in 1834. The Anti-Masons presently united with it, and in 1840 it carried 20 out of 26 states, and 234 against 63 electoral votes, under the war-cry of "Tippecanoe, and Tyler too." The party began in 1834 and disintegrated in 1854 when the Missouri Compromise was repealed. The name *democrat* was not used, except as a nickname, till the Jackson party had been formed.

WOOLY-HEADS. Upon the accession of Mr. Fillmore to the presidency in 1850, he was found to have receded from former anti-slavery utterances. In short he had quarreled with Thurlow Weed. The result was a division in the Whig party in the State of New York at the State Convention of that year. The Fillmore partisans were denominated Silver-Greys—a former nickname of the Federalists, and the Seward men were called Wooly-Heads, as signifying their association with the negroes.

A. WILDER, M. D., Newark, N. J.

GOLGOTHA. (Vol. IV, 247.) *Golgotha* is from the Hebrew G'L, a circle, a cairn. There are many derivatives from this root-word. G'LG'L is Gilgal, also Golgol in Cyprus. *Gilboa* is the swelling circle. The wheels or rather circles in which the four cherubs of Ezekiel whirled about were gilgals. The circulation of the blood is *hagdel* (Eccl. xii, 6). G'lg'lut is the skull (Judges ix, 53). The place

where Jesus is said to have been crucified is termed Golgotha in Matthew (xxvii, 33) and Mark (xv, 22), but *Kranion* in Luke (xxiii, 33) and John (xix, 17). Probably some conformation of the ground suggested the name; but *Gols*, *Gilgals*, *circi*, or sacred circles were common anciently in the East. Such were the Stonehenge in England, and similar precincts in Palestine, Arabia and Hindustan. *Galilee* is of the same etymology and signifies circle, precinct or province. Certainly there was no Mount Calvary or *hill* of Golgotha.

A. WILDER, M. D.

FIRST OCCURRENCES OF IMPORTANT EVENTS. The first Water Works constructed in the United States was at Bethlehem, Pa., in the year 1762.

The first Historical Society organized in the United States was the Massachusetts Historical Society in 1736.

The first newspaper published in the State of Mississippi was the *Natchez Gazette* in 1800, by Col. Andrew Marschalk at Walunt Hill, two miles north of Vicksburg.

The first swinging sign on the Island of Manhattan in the State of New York, was the sign of "The Wooden Horse" for an eating-house; It was put up on the corner of *Heere Straat* by Yan Geraart in 1657.

The first duel fought in New England was between two servants and neither of them were hurt.

The first penny paper started in Philadelphia was the *Daily Transcript*, on Third Street above Water, in the spring of 1835, W. L. Drana & Co.

The first newspaper known, is in the British Museum and called *Neue Zeitung aus Hispanien und Italien* (New Tidings from Spain and Italy), February, 1534, supposed to have been printed in Nuremberg.

The first man in New England who let out hackney horses, was Tobias Hobson. He lived in Cambridge and was the "Hobson of choice" notoriety.

The first gold discovered in California, it is said, was in 1846 by a party of Mormons who had previously emigrated from Nauvoo, Ill.

The last case of public whipping in Philadelphia was a female pick-pocket at the Whipping Post on Market Street, between Third and Fourth, in October, 1736.

M. O. WAGGONER, Toledo, O.

Last Words of Noted Persons.

(Continued from Vol. II, p. 508, and Vol. III, p. 143.)

AGESILAUS II—If I have done any honorably exploit, that is my monument; but if I have done none, all your statues will signify nothing.

GAUTAMA BUDDHA—Transitory things are perishable. Qualify yourselves for the unperishable.

ABBÉ LOUIS CONSTANT (Eliphaz Levi) — It is dangerous to leave things half done.

GREGORY VII (Hildebrand)—I have loved justice and hated iniquity, and therefore I die in exile.

GEN. JOHN A. LOGAN—If this is the end, I am ready.

MRS. ELEANOR MOORE (100 years old, died in Georgetown, Me., Oct. 9, 1886)—God bless you all. Good-bye, darlings. I am going home.

GEN. JAMES BIRDSEYE MCPHERSON — Oh, Orderly, I am. (This was in answer to the Orderly's question, "Are you hurt, General.")

GEN. ORMSLY MCKNIGHT MITCHELL—I am ready to go.

MAJOR ANDRÉ. Major André walked with composure to the place of execution between two American officers. When he beheld the instrument of his fate, he asked with some emotion, "Must I die in this manner?" "It is unavoidable," was the answer. He replied, "I am reconciled to my fate, but not to the mode"; but immediately answered, "It will be but a momentary pang." With a countenance of serenity and magnanimity which melted the heart of every spectator, he mounted the cart. Being asked at the fatal moment if he desired to say anything more; he replied: "You will witness to the world that I die like a brave man." (See Bancroft's "Life of Washington, Vol. I, p. 216.)

EDWARD PERRONET (author of "Coronation," died 1792) — Glory to God in the height of his divinity. Glory to God in the depth of his humanity. Glory to God in his all-sufficiency, and into his hands I commend my spirit.

GEN. STANISLAUS POTOCKI—It is dreadful to die by the hands of my countrymen. (Potocki was distinguished in the Revolution of Kosciuszko, and was killed for hesitating to take part in the Revolution of 1830).

GEN. JOHN SEDGWICK—Oh, pshaw, I don't believe they could hit an elephant at that distance. (These words said to Gen. McMahon who told him they were firing telescopic rifles).

WACIE (the Arabian Caliph, died 845) — O Thou whose kingdom never passes away, pity one whose dignity is so transcient.

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JANNES AND JAMBRES. (Vol. II, p. 607; Vol. II, pp. 184, 214.)

From what book or writings did Paul get the names of the two magicians of Pharaoh? He says: "Now as Jannes and Jambres withstood Moses."—*II Timothy* III, 8. We do not find these names in the Old Testament.

OBSERVER.

1. There is positively no mention of them in the Old Testament.

2. The apostle Paul took the subject from no written document of his times, for the documents which we now have were written after his times. He must have heard this tradition in the school of Gamaliel, where he was educated (*Acts* XXII 3).

3. The names are evidently Semitic. Magic, however, came to Egypt from the Semitic people; and if the dynasty in the time of Joseph was that of the Hyscos—the shepherds—then this view becomes still more probable. The names in English phonetically are *Yannees* and *Yambrees*. In Talmud Babylon, M'nahhoth, fol. 85, a; and in Midrash Rabbah to Exodus VII, 12, they are called *Yohhanan* and *Mamre*, where it is related that they said to Moses: "What? art thou bringing straw to Ghhfarvaim?"—(a place noted for its fertility), i. e. Do you bring sorcery to Egypt, the very home of it? To which Moses answered: "To a town where garden greens are cultivated, bring years too for sale"; i. e. people will know then their value. It is worthy of notice, that some manuscripts of the New Testament read *Mambrees* instead of *Yambrees*, which agree with the Talmud and Midrash, according to Greek phonetic laws. The meaning of *Mamre* is *gainsayer* (comp. Deut. IX, 7).

Pliny (*Hist. Nat.*, Book XXX, chapter 1), gives the names "Iamre and Iotape." The first sounds like *Ionna*, which in Hebrew means "to oppress by craftiness;" and the second seems to me to be composed of the two Greek words *Iotees*—"counsel," and the more late Greek *Apatees*—"deceiver"; in this composition the last *p* and *t* change places, and *t* becomes absorbed in the *t* of the first word.

4. It is not necessary to assume that the Moses whom Pliny mentions in connection with the other two, was any one else than the Moses of the Pentateuch. The Bible makes Moses a practitioner of magic. So in Midrash Rabbah (to Exodus IV, 23), § 5, it is said that the staff of Moses had the initial letters of the ten plagues written upon it in three words, viz.: D.TsCh.; Ghh.D.Sh.; B.A.Hh.R. The Jews to this day repeat these three unmeaning words, in the lit-

urgy of the first Passover supper, and know nothing about them. But at a glance I saw their numeric value in digits are 15, 14, 13; these summed up give 42—equal in digital value to the three divine names, ADoNaI; IaHVeH; ALoAIM, viz., $11+17+14=42$, well known in the Kabbalah as "The Name of Forty-Two Signs." With these names upon the staff, the Midrash says, God commanded Moses to do the wonders, of course magically. Now the Roman Pliny ought not to be expected to be more accurate than in Jewish matters than the Roman Tacitus, who says that the Jews worshipped an ass; or than the Roman Justinus, who makes Moses to be the son of Joseph; and Aruas (Aaron) to be the son of Moses, whom he made as Priest-King, and so were all subsequent kings of the Jews priests. Of the same sort is Pliny's combination of Moses with Iamre and Iotape, as founders of a magic system.

5. These two names we find in the Zohar also, that chief source of the Jewish Kabbalah. To Numbers xxii, 5, Rabbi Sheemon, (of the 1st and 2d centuries A. D.), says that Ionons and Ioumbrus were sons of Bileam, that they were killed after the affair of the golden calf (Exodus xxxii, 28), that they were worth about as much as the 3,000 that were killed, that Bileam who knew all the magic of the whole world obtained their art too, and with this he escaped into the air from Phineas who pursued him.

6. The use which Paul the inspired apostle, and which other inspired writers of the New Testament make of traditional matters, should induce Christians to make a discriminate study of it and not throw it all aside as useless. E. M. E., M. D., Bethany, W. Va.

QUOTATION FROM JESUS. (Vol. IV, p. 244.) Where are the words of Jesus found quoted by some of the early ecclesiastical writers: "Let us resist all iniquity and hate it." SEARCHER.

This quotation is found in the General Epistle of Barnabas III, 11, in the Apocryphal New Testament.

NE PLUS ULTRA. Where originated the saying "no more beyond"? PHILOLOGOS.

We have seen it stated that Charles V of Spain (1500-1558) took for his motto *Nondum* ("Not yet"), but afterwards exchanged it for *Plus ultra* ("More beyond"). Sainte-Beuve says "this gave the lie to the Pillars of Hercules."

TRANSLATION OF EPITAPH OF PARACELSUS. (Vol. IV, p. 254.)
What is the English translation of the following inscription on the tomb of Paracelsus :

"Conditur hic Philippus Theophrastus Insignis Medecine Doctor Qui Dira illa Vulnera, Leporam, Podagram, Hydroposim, aliaque insanabilia corporis contagia mirifica arte sustulit ac bona sua in pauperes distribuenda collocandaque honeravit Anno MDXXXXI Die XXIIII Septembris vitam cum morte mutavit Pax vivis Requies eterna sepultis."

JOEL HENDERSON.

The following is a translation of the epitaph on the tomb of Paracelsus ("honeravit" being used for *oneravit*) :

"Here lies buried Philip Theophrastus, a distinguished Doctor of Medicine, who with wonderful skill expelled those direful diseases, leprosy, gout, dropsy, and other desperate ailments of the body, and who accumulated his property to be bestowed upon and distributed among the poor. On the 24th day of September, 1541, he exchanged life for death. Peace to the living, eternal rest to the buried."

GEO. R. HOWELL, Albany, N. Y.

PERMUTATION OF WORDS. Are there any other words that can be change as many times as "Levi"? For example: Levi, evil, live, veil, vile.

WILLIE, 12 YEARS OF AGE.

Yes. Here are some examples: Emit, item, meti, mite, time. Eno, eon, neo, Noe, one. Here are some examples, for four ways:

Earth, heart, Herat, Terah. Capes, paces, scape, space.

Erom, Mero, more, Rome. Mane, mean, name, amen.

PETER'S PENCE. For what purpose was this fund established, and by whom?

SARAH E. BURNS.

We learn from John N. Murphy's work, "The Chair of Peter," that *Peter's Pence*, or *Rome-Scot*, was a tax instituted, in the early part of the 8th century, by Ina, King of the West Saxons, for the support of the Pope, and, as some writers allege, in return for a house for the reception of English pilgrims, erected at Rome. Ina abdicated in favor of his relative Ethelherd, A. D. 728, and made a pilgrimage to Rome, where he entered a monastery. His wife Ethelburga, who had accompanied him, took a habit in a house of religious women, at the same time. Offa II, King of the Mercians, who reigned A. D. 755-796, following Ina's example, established Peter's Pence among his subjects; and, in the course of time, the payment became general all over England; so that every family possessing twenty pence worth of goods of any kind, was liable to this tax of one penny in the year.

Its payment in England continued until the time of Henry VIII, when it was prohibited by statute, 25th Henry VIII, cap. 21 in England; 28th VIII, cap. 19 in Ireland. Cardinal Garampi, who wrote toward the close the 18th century, alleges that Peter's Pence was established by Offa, and not by Ina. But this allegation is opposed by one Ranulph Higden, the Monk of Chester, who writes in his Chronicle concerning Ina the following, translated into English by John of Trevisa, in 1387. This translation was retouched in 1482 by Caxton, bringing it down to 1460. Caxton's version reads :

"Ina bytoke his kyngedome of West Saxons to his cosyn ethelardus and wente to rome hyt is sayd he was the fyrst of kynges that graunted to seynt peter of every hous of his kyngedome a peny that longtyme by englysshemen was callyd Rome scott but in Latyn it is eallyd petres peny."

THE WORD "CATHOLIC." Who first applied the word *Catholic* to the church, and when ?

SARAH E. BURNS.

The word "Catholic," meaning Universal, was first so used in the *Apostles' Creed*. "And One, Holy, Catholic, Apostolic Church," says the author of "The Chair of Peter." Next it was used by St. Ignatius, who is said to have been a disciple of St. John the Evangelist, and succeeded Evodius as Bishop of Antioch and suffered martyrdom in the year 107. He says : "Wherever Christ Jesus is, there is the Catholic Church." St. Cyril, A. D. 350, observes, that "the Church is distinguished by the very name of Catholic from all heresies, which strive in vain to usurp it." St. Augustine, A. D., 400, says : "The very name of Catholic holds me in the Church." The word comes from *kata*, in, through, or among, and *olous*, the whole.

THE TEN SEPHIROTH. (Vol. III, p. 102.) The following Commentary on the Ten Sephiroth by W. Wynn Wescott, M. B., has been received from the author, London, Eng., printed in tract form which answers admirably many inquiries about the Ten Sephiroth. This subject was new to many of our readers :

The Sephiroth form a decad, and constitute the numerical conception of God. He may be known by numbers and by letters.

His ideas of God by means of numbers are the Sephiroth ; by means of letters they are the Shemoth.

The Shemoth are the explanatory titles of the Great Name, the

Shema—this Shema, distributed into its elements, is the Shemhamphorash.

The Ten Sephiroth bear names: the first is the Crown, the last the Kingdom—Kether and Malcuth. The Kingdom suggests the Crown; the universe proves the existence of God; the eye below is illuminated by the eye above; the Son suggests the Father; the equilibrated scale of a balance suggests the existence of its fellow. Humanity points out its Creator.

Kether, the Crown!—but where is the Crown unless on the Kingdom, which is Malcuth? God is crowned by his works; He is revealed in human thought. Thus that which is above is like that which is below. Kether is in Malcuth; and the idea of Kether is the Mulcuth of human intelligence. God creates the soul of man; and the human soul evolves the existence of God. *Parturit homo Deum*. Infinite justice equilibrated by infinite goodness, and infinite goodness sustained and inspired by justice, form the ideal of the Beauty which we call the Splendour of God, the Shekinah, the Zohar, the Light of the Glory, the Tiphereth.

It is in the midst of the Sun of human intelligence that the incommunicable name IHUH, the Tetragrammaton, is written; the name which is never read but is spelled with letters — Jod, He, Vau, He; the Jahouvahou, the Ieoua, from which we form the word Jehova by replacing the four mystic Hebrew letters by the five vowels of our modern languages.

Thus, the sacred name, if written only in its first reflection, is the last word arising from our human intelligence on quitting the most arduous summits of science, to trust itself to the wings of faith.

It is then, but the human name of God; or, if preferred, the Divine name of the nature of man. Jod, the creative activity of wisdom; He, the incomprehensible understanding; Vau, the equilibrated union of the two. Jod is Chocmah, He is Binah; the Vau is Tiphereth; the second He is Malcuth, the Kingdom, in which we see the Reflection, or Rainbow of the Crown, Kether.

Such is the divine ideal in the three worlds; three triangles which are as one triangle, three complete ideals, three complete and absolute conceptions of the One God, three in one; and three in each of three triads, nine and one; the circle; and the axis around which the circle revolves; the essence and the existence of the two hieroglyphic signs of number—of the decad, 10, 1 and 0.

The volatile and the fixed, the movable and the stable; form variable to infinity, and being unchangeable in its essence, these are the eternal balances of life. Form undergoing improvement, and being reborn more full of life after an apparent destruction — this is prog-

ress ; this is Victory, or Netsah. Order always identical, law always stable, existence always indestructible — it is eternity, it is Jod, it is the harmony of the two contraries ; it is the law or Creation, the Jesod,

The two forces and this law of harmony are revealed in all nature, which is the Kingdom of God : that is to say, Creation is a combination of stability and change. Nothing is immortal in its form, nothing is changeable in its essence. The ephemeral may live but a day, but its type is immortal. Let me reveal these diverse phenomena. Existence is the cause of that which manifests itself in itself ; eternal order proves eternal wisdom. Progress in formation announces the intelligence, fruitful and always actively at work. Hod proves Chochmah ; Netsah is the demonstration of Binah, as Malcuth is the peremptory reason for the existence of Kether. The law of Creation proves the existence of a law-giving Creator. The Kingdom proves the existence of a King, of whom we can only comprehend and affirm the works. "*Confession et decorem induisti amictus lumine sicut vestimento.*" Netsah, Hod, and Jesod are the three angles of the reversed triangle in the Seal of Solomon, which corresponds to three angles of the erect triangle that refer to Kether, Chochmah, and Binah ; and between these two triangles, as a mediatorial mirage or reflection, we find Chesed, Geburah, and Tiphereth. Kether is the Crown of wisdom, intelligence and mercy. Chochmah is the wisdom of the Crown, and the intelligence of mercy ; and so on of the others.

Thus is the decad entire referred to each unity of the decad. The name which is referred to Kether is *Eheie asher Eheie* — Existence is Existence. Being is proportional to Being.

This absolute affirmation is the last word of science, and the first word of faith ; science having for its object Truth and the reality of its existence ; and faith having as its basis the essentiality, the immutability, and the immortality of being. Without faith science perishes in the abyss of scepticism, and does not dare to affirm that even Existence exists. It would then but observe uncertain events, and would no longer rely on the evidence of the senses. It would no longer perceive existence, but only beings ; and no longer dare to create synthesis, because analysis had been evaded. Is matter to us capable of infinite sub-division ? Is it perceptible by its nature, or by an accidental circumstance ? If matter has no sensible being, it can have no corporeal existence. What, then, becomes of the distinction between matter and spirit ? The thing we call soul, is it an immaterial substance, or an attribute of matter ?

Confusion alone would exist ; all would be doubt and abyss ; life would be a dream ; and silence greater wisdom than speech. The entire Kingdom must disappear if the Crown be no more. Existence is a Certainty ; and in affirming this I affirm God, who is the supreme reason for existence. *Eheie* is proven by Jehova Tetragrammaton.

QUESTIONS.

1. On an ancient watch in our possession made in Rotterdam, the motto, *Het Land America* is engraved upon the works, and we would like to have some of your linguistic readers tell us what the words mean.

JOHN KAY, Malone, N. Y.

2. Who is the author of "All mankind loves a lover"?

What are the names of the seven killed in the Haymarket Massacre in Chicago?

XENOPHON.

3. What are the seven languages spoken by Count Von Moltke?

Please complete and tell the author of the following quotation,

"Call me Daphne, call me Chloris,
Call Lalage, call me Doria."

ANXIOUS, Baltimore, Md.

4. A ring in this city has the figure of a long-legged bird upon it, with the inscription, "It shall yet cry in Athol." Can any one inform me of the origin and signification of the inscription?

W. E. C., San Francisco, Cal.

5. When did the crown become the emblem of kingly authority?

When and where did church bells originate?

What was the "Holy League"?

When was the first pilgrimage performed?

Why was St. George the patron saint of England?

What was the origin of the Carbonari?

Which was the longest siege that has ever been?

D. M. DRURY, Brooklyn, N. Y.

7. Who is the author of the following quotation, and where found:

"Loud mourns the sea on that lone shore." ANNIE W. PATTEN.

8. What are some of the illustrations and demonstrations to prove the "fourth dimension of space"?

How many distinct demonstrations are there of the "47th proposition of Euclid," and where can a collection of them be found?

"The square described on the hypotenuse of a right-angled triangle is equivalent to the sum of the squares described on the other two sides."—*Davies' Legendre*, Bk. IV, Prop. 11.

Was the Pythagorean harmony known as "The Music of the Spheres," a foresight or gleam of some law of harmony of their arrangement, motions, etc., as Bode's Law of distances, Newton's Laws of gravitation, Kepler's Law of analogy, etc.?

X. Y. Z.

8. There is a Targum, or translation of the Pentateuch, printed at Venice in 1591, known as the "Targum of Pseudo-Jonathan." Why is the translator, or interpreter, called *Pseudo-Jonathan*, i. e. False-Jonathan?

FOREST C. ORR.

1. Will some one give the nationality, origin, and meaning of the name *Mackey*?
LILLIE M. MACKEY, Scranton, Penn.

2. What is the origin and meaning of the name *Seeley*?
MAGGIE E. SEELEY, Sharon Springs, N. Y.

3. When, where, and by whom, was the first Commercial School, or Business College established? J. Q. A., Apponaug, R. I.

What is the origin and meaning of the name *Spencer*?
GEO. J. SPENCER, JR., Providence, R. I.

4. Will some one tell us something of the Gimmel or Gemmow ring—"the double-hooped ring"? What gimmel rings are historical? What quotations are found relative to them, and where found? What modern forms of it are made? What were the most popular inscriptions?

When, and where, was the first High School in Pennsylvania?
L. L. M., Scranton, Penn.

5. Please tell me though NOTES AND QUERIES something about my name *Lenore*.
BESSIE LENORE ADAMS, West Natick, R. I.

6. What are the verses, and words, to "Shay's Song," sung at the Shay's Rebellion Centennial, at Springfield, Mass., on January 25, 1872? Where can a copy be found?

Who are the authors of the following quotations?

(a) "And whenever the way seemed long,
Or his heart began to fall,
He sung a more wonderful song,
Or told a more marvelous tale."

(b) "I thought the sparrow's note, from Heaven,
Singing at dawn in the alder bough;
I brought him home from his net at even,
He sings the song, but it pleases not now."

(c) "Over the sea, see the flamingo flaming go,
The lark hie high, the swallow follow low," etc.

(d) "Let the world go round and round,
And the sun sink into the sea;
For whether I'm on or under the ground,
Or, what will it matter to me?"

ANXIOUS.

The following stanzas are quoted from a poem by Rev. J. P. Rodman read at the celebration of the Battle of Bennington, a few years ago. Can some reader furnish a copy of the entire poem, or state where it can be found?
PHILOS, Baltimore, Md.

"The morning came—there stood the foe;
Stark eyed them as they stood;
Few words he spoke—'twas not a time
For moralizing mood:

"See there the enemy, my boys!
Now, strong in valor's might,
Beat them, or Betty Stark will sleep
In widowhood tonight."

MISCELLANEOUS

NOTES AND QUERIES,

WITH ANSWERS.

"The Great Ocean of Truth lies all undiscovered before me."—NEWTON.

VOL. IV.

MAY, 1887.

Nos. 5.

Mysteries of Numbers.

In pursuing certain studies of a philosophical nature, I had occasion to make an exposition of the digital scale of numeric powers as follows :

0 ; 1, 2, 3 ; 4, 5, 6 ; 7, 8, 9 ; 10.

Certain occult principles having led to this classification, it occurred to me that the propriety of the arrangement of the groups could be quite certainly shown by a certain arithmetic process.

It had long been known that if a certain sum of figures, without regard to amount, were multiplied by 3 or any of its multiples, and the digits in the product then added together until a single term resulted, the result would be either 3, or 6, or 9 ; and the thought impressed me that *any example* worked by the same process with the first two figures of the same groups, as multipliers, in regular order, would give results equally systematic, *in their way*, though the way would be surely different and liable to vary with every varying example operated. So, I proceed to try the theory in numerous instances, with results verifying my conceptions. As an example of the process, I will give

$$34216 \times 1 = 34216. \quad 3+4+2+1+6=16=7.$$

Proceeding now through the whole process, first multiplying with

1, 4, and 7, as first terms of the groups ; next, with 2, 5, and 8, as second terms of the groups ; and finally, with 3, 6, and 9, the third terms of the groups, I will take as an example, 325754 :

$\begin{array}{r} 325754 \\ \hline 1 \end{array}$	$\begin{array}{r} 325754 \\ \hline 4 \end{array}$	$\begin{array}{r} 325754 \\ \hline 7 \end{array}$
$325754=26=8$	$1303016=14=5$	$2280278=29=2$
$\begin{array}{r} 325754 \\ \hline 2 \end{array}$	$\begin{array}{r} 325754 \\ \hline 5 \end{array}$	$\begin{array}{r} 325754 \\ \hline 8 \end{array}$
$651508=25=7$	$1628770=31=4$	$2606032=19=1$
$\begin{array}{r} 325754 \\ \hline 3 \end{array}$	$\begin{array}{r} 325754 \\ \hline 6 \end{array}$	$\begin{array}{r} 325754 \\ \hline 9 \end{array}$
$977262=33=6$	$1954524=30=3$	$2931786=36=9$

When the multipliers are the first terms of the groups, in regular order, it is seen that the resultant figures are *the middle terms* (8, 5, 2), *in inverse order* ; when the multipliers are the middle terms in regular order, the resultant figures are *the first terms* (7, 4, 1), *in inverse order*. With the last terms of the groups as multipliers, the resultants are in irregular order (6, 3, 9), in this instance, as before stated.

With other given examples results will vary, but will maintain equal constancy.

Query. What is the esoteric significance thus indicated ? and what is the exoteric significance — the solution by arithmetic principles ?

WM. H. KIMBALL, Concord, N. H.

TWO LATIN INSCRIPTIONS. I send herewith two Latin puzzles, one an inscription on a coin, on the other side of which was the name of Paulus under a human figure evidently intended for the apostle of that name. The second was inscribed upon a tomb in Holland, to the memory of John Van de Capellan :

1. Benedicite in excelsis Deo Domine de fontibus Israel ibi bini anima adolescentulus in mentis excessu.

2. Ut post bella policella de Capella Jacopo referetur deprecati fundatoris filio.

Cujus pater primus later fundi stater estat grandi precis.

GEO. R. HOWELL, Albany, N. Y.

A PUZZLE BY BISHOP WILBERFORCE. All pronounce me a wonderful piece of mechanism, and yet few people have numbered the strange medley of which I am composed. I have a large box, two lids, two caps, two musical instruments, a number of weather cocks, three established measures, some weapons of warfare, and a great number of little articles carpenters cannot do without. I have about me a couple of esteemed fishes, and great many of a small kind, two lofty trees, two gaudy flowers, and the fruit of an indigenous tree, a handsome stag, two halls or places of worship, two students or rather scholars, the stairs of an hotel and half a score of Spanish gentlemen to attend. I have what is the terror of the slave; also two domestic animals and a number of negatives.

ANSWER TO THE RIDDLE OF THE BISHOP OF OXFORD.

Mahap this bishop fain would be
A greater than plain you and me,
Yet we've a box yeapt a chest:
Two lids, two eyes that roam or rest;
Two drums, to ears that hark to hear;
A foot, eyes two, of right appear;
A score of nails must workman use,
Good fish, the soles are hid in shoes;
As smaller fish, the muscles play;
For lofty trees, the palms, make way;
And gaudy flowers, two lips may glory;
While Adam's apple tells a story;
Two peaceful calves skip in and out,

And hairs are springing all about;
A noble heart, bereft of hind,
Eyselahee, that no handle bind;
Two temples man may worship in,
While arms and walls make warfare's din;
The in-step point us to hotel;
As weather-cocks the veins may swell;
The House of Commons, we suppose
Dividing, takes the yeas and noes.
The pupils meet as scholars stand
To wait upon those ten-dons grand;
Ah! "wonderful" this man, and high;
But just as wondrous, you and I.

"THE LAKE OF SPARKLING WATERS." A Valatie man who has been traveling in Massachusetts says there is a lake in the town of Webster, in that State, bearing the following charming name: "Chargoggagoggmanchauggagoggagungamang." The people in the neighborhood call it for short "Chau-bun-a-gun-ga-mang," probably putting the B in out of pure cussedness, for there is none in the original name. The meaning of the word is said to be "The lake of sparkling waters." If there is a man in town who can promptly pronounce the word at sight the freedom of the village will be given him and a keg of diamonds.

THE DOOR-STEP OF NEBUCHADNEZZAR. The *London News* says: "In the Egyptian and Assyrian gallery at the British Museum, and in close contiguity to the Hittite monuments and the bronze gates of Shalmanezer, there has recently been placed an object of considerable interest—a bronze door-step from the great temple of E-Saggil at Borsippa, a suburb or division of Babylon. The door-step not only has inscribed on it the name of Nebuchadnezzar, but also mentions his health or restoration to health. The door-step may thus have been a votive offering."

A POEM OF POEMS. I send you a remarkable poem from the St. Louis *Globe-Democrat* which it is stated that Mrs. H. A. Deming, of San Francisco, Cal., is said to have occupied a year in hunting up and fitting together. The poem, as will be observed, is composed of thirty-eight lines from as many poets, and nearly all English poets.

H. W. H.

- | | |
|---|-----------------------------|
| 1. Why all this toil for triumphs of an hour ? | <i>Young.</i> |
| 2. Life's a short summer, man a flower. | <i>Dr. Johnson.</i> |
| 3. By turns we catch the vital breath and die, | <i>Pope.</i> |
| 4. The cradle and the tomb, alas ! so nigh. | <i>Prior.</i> |
| 5. To be is better far, than not to be, | <i>Sewall.</i> |
| 6. Though all man's life may seem a tragedy ; | <i>Spencer.</i> |
| 7. But light cares speak when mighty cares are dumb, | <i>Daniel.</i> |
| 8. The bottom is but shallow whence they come. | <i>Sir Walter Raleigh.</i> |
| 9. Your fate is but the common fate of all ; | <i>Longfellow.</i> |
| 10. Unmingled joys here to no man befall. | <i>Southwell.</i> |
| 11. Nature to each allots her proper sphere, | <i>Congreve.</i> |
| 12. Fortune makes folly her peculiar care ; | <i>Churchill.</i> |
| 13. Custom does often reason overrule, | <i>Rochester.</i> |
| 14. And throw a cruel sunshine on a fool. | <i>Armstrong.</i> |
| 15. Live well, how long or short, permit to heaven, | <i>Milton.</i> |
| 16. They who forgive most shall be most forgiven. | <i>Bosly.</i> |
| 17. Sin may be clasped so close we cannot see its face— | <i>Trench.</i> |
| 18. Vile intercourse where virtue has not place. | <i>Somerville.</i> |
| 19. Then keep each passion down, however dear ; | <i>Thompson.</i> |
| 20. Thou pendulum betwixt a smile and tear ; | <i>Byron.</i> |
| 21. Her sensual snares, let faithless pleasure lay. | <i>Smollett.</i> |
| 22. With craft and skill to ruin and betray ; | <i>Crabbe.</i> |
| 23. Soar not too high to fall, but stoop to rise ; | <i>Massinger.</i> |
| 24. We masters grow of all that we despise. | <i>Crowley.</i> |
| 25. O, then renounce that impious self-esteem : | <i>Beattie.</i> |
| 26. Riches have wings, and grandeur is a dream. | <i>Cowper.</i> |
| 27. Think not ambition wise because 'tis brave, | <i>Sir Walter Davenant.</i> |
| 28. The path of glory leads but to the grave. | <i>Gray.</i> |
| 29. What is ambition ? 'Tis a glorious cheat, | <i>Willis.</i> |
| 30. Only destructive to the brave and great. | <i>Addison.</i> |
| 31. What's all the gaudy glitter of a crown ? | <i>Dryden.</i> |
| 32. The way to bliss lies not on beds of down. | <i>Francis Quarles.</i> |
| 33. How long we live, not years, but actions tell : | <i>Watkins.</i> |
| 34. That man lives twice who lives the first life well. | <i>Herrick.</i> |
| 35. Make, then, while yet we may, your God your friend, | <i>William Mason.</i> |
| 36. Whom Christians worship, yet not comprehend. | <i>Bull.</i> |
| 37. The trust that's given guard, and to yourself be just : | <i>Dana.</i> |
| 38. For, live we how we can, yet die we must. | <i>Shakespeare.</i> |

THE TEN PRECEPTS. In an old church in Westchester county, N. Y., the following consonants are written beside the altar, under the Ten Commandments. By supplying the letter "e" the admonition is plain :

P. R. S. V. R. Y. P. R. F. C. T. M. N.

V. R. K. P. T. H. S. P. R. C. P. T. T. N.

Persevere ye perfect men ; Ever keep these precepts ten.

Questions and Answers.

REMARK OF ARCHIMEDES. (Vol IV, p. 254.) What was the remark that Archimedes made to the Roman soldier when he was ordered to quit and go to Marcellus, at the capture of Syracuse before Christ?

LOGOS.

In Samuel Arthur Bent's work, "Sayings of Great Men (p.21), it says that his only remark to the Roman soldier who entered his room while he was engaged in geometrical study, was "Don't step upon my circle," which has come down to us in the Latin form *Noli turbare circulos meos*, or, as given by Valerius Maximus, *Noli obsecro istum (circulum) disturbare*. Brandis (*Scolia in Aristotelem*) quotes the Prolegomena of an unnamed author to the Neo-Platonic Porphyry, who gives the remark of the philosopher, "My head, but not my circle." Refusing to follow the soldier to Marcellus, who had captured the city, he was killed on the spot.

THE MOUSE TOWER ON THE RHINE. (Vol. IV, p. 254.) Will some reader explain to what Longfellow alludes in the poem entitled *The Children's Hour*, by "The Mouse-Tower on the Rhine"? A. L. G.

The Mouse-Tower, on the Rhine, is said to be so called because bishop Hatto was there devoured by mice. The tower was built by bishop Siegfried, however, 200 years after bishop Hatto's death, and used for a toll-house for collecting the duties on all goods that passed by. The word *maus*, or *mauth*, means "toll," and the toll collected on corn being very unpopular, gave rise to the tradition referred to; and the catastrophe was fixed upon bishop Hatto, a noted statesman and councillor of Otto the Great, proverbial for his cunning perfidy.

ALLEGORY, OR PARABLE. (Vol. IV, 251.) Will any one of your readers give a satisfactory explanation of the "Allegory" in Galatians IV, 24? Is an allegory the same as a parable?

E., Bethany, W. Va.

This passage reads thus in Greek: "*Ha tina estin allegoroumena*," "which things are spoken allegorically." "E." is himself a scholar of much ability and I hesitate to seem to teach him. Strictly speaking an allegory is not the same as a parable; but the difference is chiefly in degree. A parable is a similitude, every part of which is parallel to what it illustrates. An allegory is a fictitious narrative which seems to relate to one matter but really signifies something else.

All its parts are not however necessarily thus important. Most "ancient history" seems to have been mingled with allegory. Paul more than once indicates the figurative character of the Hebrew story. In the Galatian epistle he would indicate that Abraham denoted the common source of two peoples and their distinct characteristics. Then going further he declares the real "chosen people" not to be the Israelites of Jerusalem, but those who belong to the Jerusalem above—the eternity, which is mother of us all.

Paul elsewhere declares the metaphoric character of the Mosaic story. In I Corinthians x, he declares the story of the *Exodus* and the events accompanying, to be *τύποι*, types or figures of speech. W.

KONX, OM, PAX. (Vol. IV, p. 254.) Have any explanations been given, of the words, *Konx, Om, Pax*, used in ancient religious rites ?

NEOPHYTE.

These are the words of dismissal to the *Epopt* or seer at the Eleusinian initiations. The Eleusinian mysteries were of Euphratean origin—perhaps by medium of the Phœnicians (*Herodotus*, v). Hence the Akkadian language, being the sacred and sacerdotal dialect, would be used at the rites ; as Sanskrit is used in India, Hebrew by Jews, and the Latin by the Romanists. Mr Robert Brown, Jr., Barton-on-Humber, England, gives me the following rendering :

Eleusinian formula —	<i>Konx</i>	<i>Om</i>	<i>Pax</i>
Akkadian transliteration—	<i>Kun-nikh</i>	<i>Umu</i>	<i>Pakh</i>
English translation—	"End of the Path, the Mother, the King."		

At the end of the Path of Probation we find the Mother and also the King.

The *nikh* is the path or Hall of initiation, typifying the discipline of life. The *umu*, Amma or Mother, is Demeter or the Bona-Dea, and the King the Supreme Father. Hence initiation figures regeneration. All the ancient dramas, religious allegories, and philosophic disciplines have a similar purport. All rites relate to human experience and spiritual purification ; because all religions have a common origin, and with all their differentiations, must inevitably have the same end and event.

A. W.

PLATONIC, PHILONIC, AND STRABONIC. (Vol. III, pp. 140, 219 ; Vol. IV, p. 248.) The word "Straborean," on page 219, should have been *Strabonian*, an error of the printer.

EDITOR.

Now a word for Strabonic and Strabonian. *Strabo* was a Roman

cognomen in the Fannian, Pompeian, and other families. It was first applied to persons having distorted eyes. The geographer Strabo was a native of Pontus and of course lived with a Greek-speaking people. This indicates a Greek idiom, etc., which would suggest *Strabonic* as the proper adjective. If the name is Latin outright, *Strabonean* is correct; but it may not be Latin. Many names and words were common to both languages. I think Pompeius to be *Pompè*. It is apparent that *Strabo* is *Strabôn* in Greek—the two words meaning alike. Strabismos is squinting, and from *strabos* and *strephe*, to turn. I judge that the truth is on both sides, — that as a Grecian name the adjective should be *Strabonic*, although *strabo* was the common adjective; and as Latin, *Strabonean*. We say *Ciceronean*, though *Ciceronic* would probably not be inadmissible. We also have *Plutonian* as well as *Plutonic*.
A. W.

FIVE OPERATIONS OF THE LORD. (Vol. IV, p. 251.) What are the five operations of the Lord referred to in the following verse of Ecclesiasticus XVII, 5?
GIMEL.

["They received the use of the five operations of the Lord, and in the sixth place He imparted them understanding, and in the seventh speech, an interpreter of the cogitations thereof."]

The "five operations" are probably the five senses, "feeling, hearing, seeing, smelling, and tasting."
W.

THE "SEA"—THE "OCEAN." (Vol. IV, p. 253.) "The sea is his, and he made it." (Psalm xcv, 5.) In most of ancient books the large body of water surrounding the continents is called *sea*. Why was it called *ocean*, when, and by whom?
Z.

Herodotus, Pindar, and Plutarch use the word *ocean* as we do. Aristotle indicates the Atlantic, *Mund*, III, 8.
W.

THE TITLE, HONORABLE. What is the lowest public office a person can hold that will entitle him to the title of "Honorable" before his name?
INQUIRER II.

A similar question was recently sent to the New York *Sun* and was replied to. It seems that there is no law whatever on the subject, and the grades of those who enjoy this complimentary distinction seem to be gradually widening out. Originally it was conferred on Members of Congress, Members of the Cabinet, Governors, and such like officials. Next Senators of State Legislatures were designated as Honorables, and then others who served as Judges of the several

Courts received the title, and now any one who holds the office of Mayor of a city is addressed as Honorable. It is a matter of taste and there is no precise rule about it.

THE TETRAGRAMMATON. (Vol. IV, p. 254.) What is the *Tetragrammaton* mentioned in Vol. III, p. 95? X. Y. Z.

The Tetragrammaton consists of the four Hebrew letters, *Yod*, *He* (or Heth), *Vau*, and *He*, which constitutes the name read by English-speaking peoples *Jehovah*. It will probably be regarded as temeritous to venture upon a criticism or exegesis of this word. I accord little respect to the Masoretic punctuation and know not why it should have any. Hence I read the Tetragrammaton by its simple letters, making *He* a vowel, which would give us the word as the Samaritans pronounced it, *Yava*. This accords with the arcane name of Raman or R'mma, the Assyrian god of Wisdom, *Yav*, the Vul of Mr. Smith. *Iao*, it will be remembered, was a Gnostic and Asian appellative, and and was also used in the Oracle of Apollo Klarios to denote God as one. Some writers suggest that *Heth*, and not *He*, should be the letter in the word, in the first and perhaps in both cases. This would give us either *Yachvach*, or *Yachva*. In Hebrew the letter *He* at the end of a name renders it feminine, and *Yod* as the initial letter, denotes it masculine. Perhaps therefore the *Vau* denotes the androgynous nature of the Supreme Being, Father and Mother in One. The name *Heva* or *Hava*, the first woman in Eden seems to be the feminine of *Yava* or *Yaheva*, as in Latin *Caia* is the feminine of *Caius*. The Masonic translation of the Tetragrammaton as "*He-She*" is by no means absurd. *Eva* (Aleph final) is *she*; and with *He* final and *Yod* initial, the theory is plausible. I prefer however to accept the three letters, *He*, *Vav*, *He*, as *ava*, to be, and the initial *Yod* as its masculine personification. Thus *Yava* would mean That which is, the Satya of the Hindu, and the *Ontos on*, or real being of Plato.

A. WILDER, M. D., Newark, N. J.

THE APOSTLES' CREED. Can you give us the Apostles' Creed and its various changes down to the present time? STUDENT.

We cannot give the various changes since it was formulated, but we will give an early version and a late one. It is affirmed by Ambrose, says King's "History of the Apostles' Creed," p. 26, that the Twelve Apostles assembled together, and made a key by their com-

mon advice, to their belief, *i. e.* "a Creed, by which the darkness of the devil is disclosed, that the light of Christ may appear." Others say that each one of "the twelve" inserted an article, by which the Creed is divided into twelve parts. A sermon, fathered upon St Austin, and quoted by the Lord Chancellor King, states that each particular article was inserted by each particular apostle, as follows :

1. *Peter*—I believe in God the Father Almighty ;
2. *John*—Maker of heaven and earth ;
3. *James*—And in Jesus Christ His only Son, our Lord ;
4. *Andrew*—Who was conceived by the Holy Ghost, born of the Virgin Mary ;
5. *Philip*—Suffered under Pontius Pilate, was crucified, dead and buried ;
6. *Thomas*—He descended into hell, the third day He arose again from the dead ;
7. *Bartholomew*—He ascended into heaven, and sitteth at the right hand of God the Father Almighty ;
8. *Matthew*—From thence he shall come to judge the quick and the dead ;
9. *James, the Less*—I believe in the Holy Ghost, the Holy Catholic Church ;
10. *Simon Zelotes*—The communion of saints, the forgiveness of sins ;
11. *Jude*—The resurrection of the body ;
12. *Matthias*—Life everlasting. Amen.

The modern version now published by the Congregationalists reads as follows :

I BELIEVE

In One God, the Father, the Son, and the Holy Ghost ; In the Father Almighty, Maker of heaven and earth ; And in Jesus Christ His only Son our Lord ; Who was conceived by the Holy Ghost ; born of the Virgin Mary ; Suffered under Pontius Pilate ; Was crucified, dead and buried ; He entered into Paradise, the third day He arose from the dead ; He ascended into heaven ; And sitteth on the right hand of God the Father Almighty ; From thence He shall come to judge, according to the things done in the body, the living and the dead.

I BELIEVE

In the Holy Ghost ; The Holy Scriptures ; The Holy Church Universal ; The Communion of Saints ; The New Spiritual Birth ; The Forgiveness of sins ; The Resurrection of the dead ; The Final Separation of the Righteous and Wicked ; and the Life and Death Everlasting. AMEN.

A DIVINE SYSTEM of CHRONOLOGY. I have seen it stated that a divine system of chronology and numerical connection of meaning has been developed in the Scriptures. Are there works published on these subjects exclusively?

JONATHAN.

PALMONI—"THE WORDERFUL NUMBERER." This is the title of Rev. Milo Mahan's remarkable pioneer book on the "Numerals of Scripture, as a proof of inspiration," of 154 pages, published in 1863. He selects nearly all the leading names, passages, and words, and sums the letters in the Hebrew, and some of them in the Greek, and thinks that all were arranged by design as an inspired system of numerical net-work based on certain recurring numbers as 3, 5, 7, 9, 10, 12, 13, 17, 26, 31, 40, 42, 49, 50, 120, 153 (and some others), all of which are amply enlarged upon. His own favorite number seems to be 153, the number of the fishes caught in Simon Peter's net (John XXI, 11). In 1875, his more elaborate work was published, the title-page of which he scrupulously made to conform to this number, "an hundred and fifty and three":

MYSTIC NUMBERS :	13
A KEY	4
TO CHRONOLOGY,	12
A LAW	4
OF THE DIVINE ECONOMY,	18
A TEST	5
OF INSPIRATION :	13
A THOROUGH INQUIRY,	16
BY	2
M. MAHAN, D. D.,	8
AUTHOR OF	8
"PALMONI ; OR, THE NUMERALS OF SCRIPTURES,	31
A PROOF OF INSPIRATION."	19
Total,	153

One entire chapter (xxxix) is devoted to an exposition of the number $153 = 3 \times 3 \times 17$. He is particular to make his title-page conform to "18 lines, of which 7 give the upper or heavenly part, and 6 give the earthly statement concerning the author," says his editor. The author says "*the Sons of God*" (Gen. vi, 2 ; Job i, 6) numerically in Hebrew "is 153—the number of the great fishes in the draught of

the resurrection." He says the sum of the arithmetical series 1 to 17 is 153: $(1+17 \times 17 \div 2 = 153)$. That the seventeenth triangular number is 153: $(1+3+5+7+9+11+13+15+17 \text{ (to 17 terms)} = 153)$; hence, "it is an expression of *all* who through the SPIRIT fulfil the commandment: in other words, it is the number of the finally redeemed." The work is full of interest to all who believe in the occult properties of numbers. The volumes contain 714 pages, and 18 photo-lithographic plates, of the author's posthumous papers, in the appendix. Milo Mahan was St.-Mark's-in-the-Bowery Professor of Ecclesiastical History in the General Theological Seminary.

PALMONI: An Essay on the Chronographical and Numerical Systems of the Jews. This a volume of 681 pages, published in London in 1851; author's name not given. It deals more especially with eras, epochs, cycles, periods, seasons, times, dates, jubilees, etc., and is in its detail quite elaborate.

ORDO SECLORUM: A Treatise on the Divine Plan of Times and Seasons of the Scriptures; by Henry Browne M. A., London, 1844; pp. 704, containing an appendix on the several ancient national systems of chronologies.

THE NUMBER "SEVEN" IN SCRIPTURE is the title of a small duodecimo of 76 pages, published in London. It gives the words and the references to 228 passages in which *seven* or a multiple of seven are named; and also 176 groups of *sevens*, with the seven subjects or things mentioned. It is an interesting compilation.

NUMERALS OF THE BIBLE: 888 is the title of a remarkable little pamphlet of 76 pages, by Rev. James A. Upjohn of Neenah, Wis. The 888 is the number of "Resurrection and Life," and is the sum of the letters of the Greek name IESOUS (Jesus). The letters represent the numbers, 10, 8, 200, 70, 400, 200, and added make 888.

NUMBER: A LINK BETWEEN DIVINE AND HUMAN INTELLIGENCE is the title of an interesting argument by Charles Girdlestone, M. A., of London, of 34 pages, showing the beautiful harmonies of the law of gravitation, planetary motion, chemical combination, phyllotaxy, and the proportions which they lead to. The person interested in all these investigations should procure these works and follow out the illustrations and examples in detail.

TEN RULES OF LIFE. (THOMAS JEFFERSON'S). (Vol. IV, p. 267.)
 As you have printed some of Franklin's Rules of Conduct, please give us Jefferson's, Webster's, Lincoln's, and others, that we may have more or less in each volume to preserve, for my volumes will be bound and left for future children and grandchildren. JOHN.

The following rules for practical life were given by Mr. Jefferson, in a letter of advice to his namesake, Thomas Jefferson Smith, in 1817 :

1. Never put off till tomorrow what can be done today.
2. Never trouble others to do what you can do yourself.
3. Never spend your money before you have it.
4. Never buy what you do not want because it is cheap.
5. Pride costs us much hunger, thirst, and cold.
6. We never repent of having eaten too little.
7. Nothing is troublesome that we do willingly.
8. How much pain those evils cost us which never happened.
9. Take things always by their smooth handle.
10. When angry, count 10 before you speak ; if very angry, 100.

BUDDHA'S DECALOGUE. Here are the ten commandments of Gautama Buddha. (Compare them with the Biblical Decalogue, Ex. xx.)

1. Thou shalt not kill.
2. Thou shalt not take to thyself what belongs to another.
3. Thou shalt not break the laws of chastity.
4. Thou shalt not lie.
5. Thou shalt not slander.
6. Thou shalt not speak of injuries.
7. Thou shalt not excite quarrels.
8. Thou shalt not hate.
9. Have faith in holy writings.
10. Believe in immortality.

TO DIVIDE AN ARC OR ANGLE INTO ANY NUMBER OF EQUAL PARTS.
 Has any demonstration of this proposition been made, and if so by whom ?

INQUIRER II.

This proposition is claimed to be solved by Prof. Lawrence S. Benson. "To divide any given arc or angle into any number of equal parts." The problem is illustrated by a diagram, and discussed with demonstration. The author is preparing a new text-book on Geometry which will contain this problem, and also the problem, "How to divide a straight line in any number of equal parts, or in any ratio."

The author can be addressed at 25 Bond Street, New York City, who will furnish his problem and demonstration in sheet form and also other discoveries and demonstrations he has published.

THE MUSICAL SCALE. (Vol. III, p. 80.) It is said that the first six syllables of the musical scale—*ut* (or *do*), *re*, *mi*, *fa*, *sol*, *la*, *si*, *do*—are the beginning of the lines of an ancient monkish hymn to St. John the Baptist. The lines, as I have them, are :

Ut queant laxis
Resonare fibris
Mira gestorum
Famuli tuorum
Solve polluti
Labi restum
Sancta Johannes.

Do I quote the lines correctly? Can any reader do better, and punctuate the same? I would like to see a literal and free translation.

H. B. J., Terre Haute, Ind.

I have seen six different copies of a hymn written about the year 770, by Paulus Diaconus, for the festival of St. John the Baptist; the music and words in these copies, though much alike, are not entirely the same. In one of the six, "*Sancte*" is made *Sancto*, and in the other copies some of the words are differently spelled. In regard to the *punctuation* of the lines, there are as many opinions as I have seen copies. Accompanying the melody as used by Guido for teaching children, in 1025, the words are without any mark of punctuation except a period at the end of the last line. The six lines commence—*Ut, Re, Mi, Fa, Sol, La*, in all the specimens—and the seventh line, *Sancte Ioannes*, (marked with a period), gives us *Sa*, and the octave by repeating *Ut*.

Gerard Vossius says: "Shortly after the time of Guido, for the purpose of impressing the six syllables upon the learner's memory —

"Cor* adhibet tristis numeros cantumque labori?
Ut Relevet Miserum Fatum Solitoque Labores"—

was used to show the syllables, *Ut, Re, Mi, Fa, Sol, La*, which syllables were sung to the notes represented by C, D, E, F, G, A." Guido, however, was the first to use the six syllables as taken from the hymn under consideration. The seventh syllable was added to Guido's scale in 1599—*Si* being suggested by the first two letters of *Sancte*, before which *Sa, Za, Ci, Be, Te*, and other syllables had been tried. *Do* was substituted for *Ut* on account of its greater resonance, by G. B. Doni, a learned writer on music, who died 1669. Since that time it has held the place of *Ut* in every country except France.

* This word Cor is by some spelled. Our.

Fa, Sol, La, Fa, Sol, La, M̄, Fa, and other syllables, such as *La, Be, Ce, De, Me, Fe, Ge—Bo, Ce, Di, Ga, La, Ma, N̄, and Da, Me, N̄, Po, Tu, La, Be*, have been used but did not survive. In a hymn written by Arrigo Boito for the opening of the monument to Guido, at Rome, his syllables are employed as follows :

*Util di Guido Regola suprema
Misuratis Facile de' suoni
Solenne or tu Laude a te stessa intuoni
Syllaba eterna.*

I have read a statement that "the seventh degree of the scale was suggested by Erius Puteanus, of Dodrecht, in 1580." I have also seen the statement that "*Si* was added to the scale by one Lemaire of Paris, about 1690." Guido, more likely, added this seventh to his own scale, taking the syllable from the word *Sancte*, one of the concluding words of the verse of the hymn which gave the names to the other syllables.

I quote as follows a supposed correct version of the *Hymn to Saint John* as given in my "Encyclopædia of Music," 1854: (*Art. Scale*.)

*Ut queant laxis,
Re-sonare fibris,
Mi-ra gestorum,
Famuli tuorum,
Sol-ve polluti,
La-bi reatum,
Sancte Johannes.*

I find so many opinions as to the correct English translation of the *Hymn* and the lines quoted, that I leave the correct English to be given by some one who is more familiar with the Latin and Italian languages.

Number of Scales. The reader who may not know that there are several *major* and *minor* scales, may be glad to see the following mention of them. There are fifteen *major* scales in general use, including those of D-flat, C-sharp, B, C-flat, F-sharp, and G-flat. Still others are found here and there, formed by accidentals in the midst of compositions, but not presented in any generally received table of scales. Every *major* scale has a relative *minor*, and each *minor* scale has two distinct forms. There are, therefore, fifteen harmonic *minor* scales and fifteen melodic *minor* scales. Combining the ascending melodic with the descending harmonic, produces what is called the mixed *minor* scale.

JOHN W. MOORE, Manchester, N. H.

THE HYMN TO SAINT JOHN. (Vol. III, p. 80.) The six syllables, *ut, re, me, fa, sol, la*, were first employed in 1026 by the Benedictine Guido Aretino who observed that the notes to which they were set formed the first six notes of the musical scale. The Italians afterwards changed *ut* to *do*, and in 1684 François Lemaire added the syllable *si* formed of the initials letters of the last line of the hymn—*Sanctus Johannes*. This was subsequently changed to *ti* to avoid confusion with *sol* when the syllables are designated by their initials.

An English translation of the hymn is as follows :

"Relax the condition of the defiled lips, St. John, so that thy servants can with pliant muscles make the wonders of thy deeds resound."

Or, a somewhat more free translation is :

"In order that thy servants, St. John, may be able with pliant muscles to sound the wonders of thy deeds, relax the tension of their sin-stained lips."

M. F. K., Manchester, N. H.

"ONE LAW, ONE TONGUE, ONE FAITH." Who was the author of this quotation ?

PHILOLOGOS.

This was the utterance of Nicholas I (1796–1825), Emperor of Russia, upon which was built his theory of government, a theory that today is called Pan-Slavism, (*Une seule loi, une seule langue, une seule croyance*). Nicholas suppressed the insurrection that followed his proclamation as emperor, with merciless vigor. The exhibition of power was necessary to its preservation. "If I am an emperor only for an hour," said he, "I will show that I am worthy of it."

He may have had in mind the similar words of Paul (Eph. iv, 5), "One Lord, one faith, one baptism," (*Unus Dominus, una fides, unum baptisma*). These words are prominent on the walls in the Catholic Church, and no doubt gave him the triple declaration.

Daniel Webster, at a banquet in New York, in 1837, gave as a toast, "One country, one constitution, one destiny," which was received with unbounded applause.

Rev. Henry Carey, of England, spent his life in preaching that one language was for all in the heavenly kingdom, taking his motto to be *Multæ terricolis linguæ celestibus una*, ("Many languages on earth, in heaven one").

FATHER ABBEY'S WILL. Can you reprint "Father Abbey's Will?" or, tell me where a copy can be found? I have not seen it in print since I was a boy.

JAMES HUNTER.

The *Will* was written by Rev. John Secomb, who I think you will

find was born in Medford, Mass., April, 1708. and became minister at Harvard College in 1728, and continued there until 1757, when he went to Nova Scotia, and died there in 1792, aged 84 years. His poem, the Will, was sent to England and published in the *Gentlemen's Magazine* and in the *European Magazine*, May, 1732. It was reprinted in the *Massachusetts Magazine*, in November, 1794. Father Abbey was Matthew Abdy, born in Boston, 1650. He was appointed bed-maker, sweeper, and bottle-washer, at Harvard, February 19, 1718, which office he held until he died, and his wife Ruth Abdy became sweeper. She died December 9, 1762. If Matthew, the husband, died in 1730, as is supposed, his age was 85 years.

To my dear wife,
My Joy and life,
I freely now do give her,
My whole estate,
With all my plate,
Being just about to leave her.

My tub of soap,
A long cart-ropes,
A frying-pan and kettle,
An ashes pail,
A threshing-flail,
An iron wedge and beetle,

Two painted chairs,
Nine warden pears,
A large old dripping platter,
This bed of hay,
On which I lay,
An old sauce-pan for butter.

A little mug,
A two-quart jug,
A bottle full of brandy,
A looking-glass,
To see your face,
You'll find it very handy.

A musket true,
As ever flew,
A pound of shot and wallet,
A leather sash,
My calabash,
My powder-horn and bullet.

An old sword-blade,
A garden-spade,
A hoe, a rake, a ladder,
A wooden can,
A close-stool pan,
A clyster pipe and bladder.

A greasy hat,
My old ram cat,
A yard and half of linen,
A woolen fleece,
A pot of grease,
In order for your spinning.

A small tooth-comb,
An ashens broom,
A candle-stick and hatchet,
A coverlid,
Striped down with red,
A bag of rags to patch it.

A ragged mat,
A tub of fat,
A book put out by Banyan,
Another book,
By Robin Cook,
A skain or two of spun yarn.

An old black muff,
Some garden stuff,
A quantity of borage,
Some devil's weed,
And burdock seed,
To season well your porridge.

A chafing dish,
With one salt-fish,
If I am not mistaken,
A leg of pork,
A broken fork,
And half a fitch of bacon.

A spinning-wheel,
One peck of meal,
A knife without a handle,
A rusty lamp,
Two quarts of sump,
And half a tallow-candle.

My punch and pipes,
Two oxen tripes,
An oaken dish well carved,
My little dog,
And spotted hog,
With two young pigs just starved.

This is my store,
I have no more,
I heartily do give it,
My years are spun,
My days are done,
And so I think to leave it.

Thus father Abbey left his spouse,
As rich as church or college mouse,
Which is sufficient invitation,
To serve the college in his station.

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THE BIZARRE.

MAY 28 1887

NOTES QUERIES

IN

HISTORY, FOLK-LORE, MATHEMATICS
MYSTICISM, ART, SCIENCE, Etc.

"Go on, and the Light will come to you." — *Jean D'Alembert.*

VOL. IV.

JUNE, 1887.

NO. 6.

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MISCELLANEOUS

NOTES AND QUERIES,

WITH ANSWERS.

"The whole earth is the brave man's country."—OVID.

VOL. IV.

JUNE, 1887.

No. 6.

New Rendering of the Ten Commandments.

In an article on "The Law of Metaphor," published in 1879, that learned linguistic explorer, the late Stephen Pearl Andrews, gave a new rendering to the Ten Commandments (Ex. xx, 3-17), saying:

"The religion of the future, if we are to have a religion, must have its maxims; and what can be better than to go back to the ancient maxims and take the spirit out of them for our use and let the letter go to the great waste-basket of antiquities. Let us, then, have the spirit of the two tables of Moses. The following rendering not only saves the spirit and dismisses the letter, but it converts the Commandments, at the same time, from mere negative prohibitions into affirmative exhortations; or, in other words, into definite prescriptions of acts to be done; and so into moral laws or rules of our conduct":

1. Thou shalt have no other gods than the Most High (that, whatever it is, embodies, to thy conception, the supremest excellence.)

2. Thou shalt not make unto thee, any sham substitute, or inferior substitute, or inferior likeness of this thy supreme ideal; whether it be in itself relatively high (in heaven above), or mean (in the earth beneath), or base (in the water under the earth). Thou shalt not degrade (bow down) thyself, in respect to any such, nor come under the yoke of their tyranny over thee; for the Supreme Excellence (The Most High—God) is in direct antagonism (a jealous God) against all such degradations of the soul, and will cause the consequences of thy dereliction to follow thee and thy children's children through all com-

ing time (as the necessary consequence of heredity and of the solidarity of the race); while tending, on the contrary, to raise and comfort those who devoutly love and serve all Goodness and Truth.

3. Thou shalt not make a pretentious display even of thy devotion to the Most High (taking his name in vain), as by invoking such high considerations on trifling occasions, thereby bringing them into contempt; for the Most High is thereby profaned.

4. Remember the days of special convocation and all such appointments as thou hast made; on other occasions thou shalt complete thy work; such as might hinder thee in the fulfillment of thy engagements; for the stated occasion is the period of rest from ordinary occupations. In this manner let thy influence over others, who are subject to it (son, daughter, man-servant, maid-servant, and even the inferior animals) conduce to the faithful performance of duties and the fulfillment of all obligations; for, by special appointments the world is made, during the fitting seasons; followed by season of rest; whereby it appears that the Most High has instituted seasons of repose, equally with seasons of activity, or work.

5. Honor the noble ancestors of the race, as thou honorest thy father and thy mother; so that the continuity of humanity may be recognized and conceived, in that perpetual dominion which the Most High (the umpire of destinies) assigns to man over the world.

6. Thou shalt not wantonly exhaust or destroy the vitality of thyself or others (shalt not kill).

7. Thou shalt not mix thy procreative or life-giving forces wantonly, excessively, nor in any wise unwisely, but only in due respect to the highest uses; not, therefore, adulterously; but in purity of purpose, manner, or degree; (shalt not commit adultery).

8. Thou shalt not even withdraw thine own from the help of others; but thou shalt endow others with constant blessing; devising sedulously the ways of doing good (shalt not bear false witness).

9. Thou shalt bear truthful witness to the good there is in thy neighbor, in preponderance over the evil; thy neighbor being all mankind (shalt not bear false witness).

10. Thou shalt earnestly covet the highest well-being of thy neighbor, in all his relations of life; in his domestic companionship, in his political and industrial pursuits, and in whatsoever he does; (shalt not covet anything that is his).

HUXLEY'S TABLE OF WEIGHT. Huxley gives the following table of what a full-grown man should weigh, and how the weight should be divided: Weight 154 pounds. Made up thus: Muscles and their appurtenances, 68 pounds; skeleton, 24 pounds; skin, 10½ pounds; fat, 28 pounds; brain, 3 pounds; thoracic viscera, 3½ pounds; abdominal viscera, 11 pounds; blood which would drain from body, 7 pounds. This man ought to consume per diem: Lean beef-steak,

5,000 grains ; bread, 6,000 grains ; milk, 7,000 grains ; potatoes, 3,000 grains ; butter, 600 grains ; and water, 22,000 grains. His heart should beat 75 times a minute, and he should breathe 15 times a minute. In 24 hours he would vitiate 1,750 cubic feet of pure air to the extent of 1 per cent ; therefore, of the weight mentioned, he ought to have 800 cubic feet of well-ventilated space. He would throw off by the skin 18 ounces of water, 300 grains of solid matter, and 400 grains of carbonic acid every 24 hours ; and his total loss during 24 hours would be 6 pounds of water, and a little more than 24 pounds of other matter.

MASONIC RITES. Now many Masonic rites are there that are usually worked in the different countries, and what are their several names ?

NEOPHYTE.

Mackey's "Encyclopædia of Freemasonry" says that the Latin word *ritus*, from whence we get the English word *rite*, signifies an approved usage or custom, or an external observance. Vossius derives it by metathesis from the Greek *tribein*, whence literally it signifies "trodden path," or metaphorically "a long-followed custom." It signifies a method of conferring Masonic light by a collection and distribution of degrees. It is in other words, the method and order observed in the government of a Masonic system.

The original Masonic system of Speculative Masonry consisted of only the three symbolic degrees. Such was the condition of Freemasonry at the time of what is called the revival in 1717. Hence, this was the original rite or approved usage, and so it continued in England for almost a century, or till 1813, when at the union of the two Grand Lodges, the "Holy Royal Arch" was declared to be a part of the system ; and thus the English, or, as it is now more Masonically known, the "York Rite" was made legitimately to consist of four degrees. But on the continent of Europe the organization of new systems began at a much earlier period, and by the invention of what are known as the high degrees a multitude of ceremonies were established. All of these degrees agreed in one important essential—all being built upon the symbolic degrees as a fundamental Masonic basis. They were intended as an expansion and development of the ideas contained in these three degrees—Entered-Apprentice, Fellow-Craft, and Master-Mason. These were the porches through which every initiate was required to pass before he could gain an entrance into the

inner temple. The first three degree were the text and the higher degrees were the commentary.

The following catalogue embraces the most important of those which have hitherto and still continue to arrest the attention of the Masonic student. These Rites are not given in either the order of date, or of importance. The priority of several of these are in dispute, their history being somewhat traditional :

- | | |
|--|--|
| 1. York Rite. | 19. Primitive Rite of the Philadelphians. |
| 2. Ancient and Accepted Scottish Rite. | 20. Rite of Martinism. |
| 3. French or Modern Rite. | 21. Rite of Brother Henoch. |
| 4. American Rite. | 22. Rite of Mizraim. |
| 5. Philosophic Scottish Rite. | 23. Rite of Memphis. |
| 6. Primitive Scottish Rite. | 24. Rite of Strict Observance. |
| 7. Reformed Rite. | 25. Rite of Lax Observance. |
| 8. Reformed Helvetic Rite. | 26. Rite of African Architects. |
| 9. Fessler's Rite. | 27. Rite of Brothers of Asia. |
| 10. Schröder's Rite. | 28. Rite of Perfection. |
| 11. Rite of the Grand Lodge of the Three Globes. | 29. Rite of Elected Cohens. |
| 12. Rite of the Elect of Truth. | 30. Rite of the Emperors of the East and West. |
| 13. Rite of Vielle Bru. | 31. Primitive Rite of Narbonne. |
| 14. Rite of the Chapter of Clermont. | 32. Rite of the Order of the Temple. |
| 15. Pernetty's Rite. | 33. Sweedish Rite. |
| 16. Rite of the Blazing Star. | 34. Rite of Swedenborg. |
| 17. Chastanier's Rite. | 35. Rite of Zinnendorf. |
| 18. Rite of the Philalethes. | 36. Egyptian Rite of Cagliostro. |
| | 37. Rite of the Beneficent Knights of the Holy City. |

MINNNEEHAHA. Who was Minnehaha ?

EDWARD.

Minnehaha means *laughing waters*, and was the lovely daughter of the old arrow-maker of the Dacotahs, and wife of Hiawatha. She died of famine. Longfellow has sung the legends in the poem under "Hiawatha," which should be read by this correspondent.

"PLON PLON." Why was Prince Napoleon Joseph Charles Bonaparte called "Plon Plon" ?

Z.

"This prince was the son of Jerome Bonaparte by his second wife (the princess Frederica Catherine of Würtemberg). Plon Plon is a euphonic corruption of *Craint-Plomb* ("fear-bullet"), a nick-name given in the Crimean war (1854-56).

ALPHABETICAL ADVICE. Elbridge Gerry Paige (Dow Jr.), 1816-1859, gave the following code of "ethics" as his advice, which contains much philosophy :

- A. Always attend to your own avocation ; avoid ale-houses and artful women.
- B. Be benevolent but not prodigal ; bury all bickerings in the bosom of forgetfulness.
- C. Contrive to collect cash, and keep it.
- D. Do your duty and defy the devil.
- E. Early endeavor to eradicate every error, both of head and heart.
- F. Fight fairly when you fight ; but the better way is not to fight at all. Fiddle for no fools.
- G. Grace, goodness, gumption, and a little goose-grease, enables a person to slip through the world mighty easy. Get them and glory in them.
- H. Harbor hope in your heart if you would be happy ; but hark, ye, hope cannot render rotten the rope of the hangman.
- I. Inquisitiveness is insufferable ; indulge not in it.
- J. Juleps may be called the juice of joy and the yeast of jest ; but let them alone, for too much joking often destroys the joviality of the social circle.
- K. Kindness kindles the fire of friendliness. A kiss avails more than a kick.
- L. Love the ladies ; look before you leap ; eschew loaferism.
- M. Make not mischief by meddling with other folk's business.
- N. Never be caught napping, except in the night-time.
- O. Order is heaven's best law ; obey it.
- P. Pursue the plain path of probity.
- Q. Quarrel not ; quibble not ; be not fond of asking questions, or addicted to quizzing.
- R. Rum ruins respectability ; renounce, renew, and renovate.
- S. Seek salvation, oh, ye sinners ! become saints, and you are safe.
- T. Take time by the forelock ; try to turn every moment to account.
- U. Union unites to unity ; in the whole universe there is unison ; therefore, unite for the sake of unison.
- V. Vanity has no connection with valor ; remember that.
- W. Women and wine bring want, and woe, and wretchedness, when wickedly indulged in.
- X. 'Xtra 'xertions accomplish 'xtraordinary ends.
- Y. Yield to no tyrant ; yeomen and their yoke-fellows are lords of the soil.
- Z. Zig-zagging is characteristic of a zany ; take a straight course through life and pursue it.
- &. & mind your own business, & let others alone, &c.

PROPERTIES OF NUMBERS. The first table of numbers below comprises the first 36 triangular numbers in regular order. These numbers are obtained by continually adding the arithmetical series, commencing with unity : 1 ; 1+2=3 ; 3+3=6 ; 6+4=10 ; etc.

I					
1	28	91	190	325	496
3	36	105	210	351	523
6	42	120	231	378	561
10	55	136	235	406	595
15	66	153	276	485	630
21	78	171	300	465	666

In this triangular series, it is observed that certain terminal figures continually repeat themselves in regular order, at a fixed interval of 20 of these numbers :

1 3 6 0 5 1 8 6 5 5 6 8 1 5 0 6 3 1 0 0 ,
1 3 6 0 5 1 8 6 5 5 6 8 1 5 0 6 3 1 0 0 ,

At an interval of each 10 numbers (after the first 9), these terminal figures repeat themselves reversely :

1 3 6 0 5 1 8 6 5 ,
5 6 8 1 5 0 6 3 1 0 .

In the polygonal series of 13 sides, 23, 33, or any other number ending with 3, the terminal figures of the series are precisely the same as the triangular series. Each of the 6 groups or columns consist of 6 triangular numbers, the 36th number being 666.

All perfect numbers are also triangular numbers ; the 6 comes into the series at the third place ; the 28 comes in at the seventh place ; the 496 comes in at the thirty-first place. The particular *ordinal* place of the perfect number will be a factor of that perfect number.

The following are all the perfect numbers so far as known at the present time :

- | | |
|--------------|-----------------------------------|
| (1) 6 | (6) 8589869056 |
| (2) 28 | (7) 137438691328 |
| (3) 496 | (8) 2305843008139952128 |
| (4) 8128 | (9) 2417851639228158837784576 |
| (5) 33550336 | (10) 9903520314282971830448816128 |

At what particular places do the remaining seven known perfect numbers come into the series of triangular numbers ?

Is there any rule to calculate large triangular numbers from their terminal figures ?

The rule for constructing any series is, after securing a base, by successive additions of the number of the polygon diminished by two. In an octagonal series, the number is six ; taking 1 for the first term or base, the terms will be 1, 7, 13, 19, etc., and the series will be :

II

1	560	2133	4720	8321	12936
8	645	2296	4961	8640	13333
21	736	2465	5208	8965	13736
40	833	2640	5461	9296	14145
65	936	2821	5720	9633	14560
96	1045	3008	5985	9976	14981
133	1160	3201	6250	10325	15408
176	1281	3400	6533	10680	15841
225	1408	3605	6816	11041	16280
280	1541	3816	7105	11408	16725
341	1680	4033	7400	11781	17176
408	1825	4256	7701	12160	17633
481	1976	4485	8008	12545	18096

This series is divided into parts, that is the groups or columns, viz : five and eight, because 5 and 8 are 13. The last terms of the first division of the groups, 65, 936, 2821, 5720, 9633, 14560, are each divisible by 13 ; also the last terms of the second division of the groups, 481, 1976, 4485, 8008, 12545, 18096, are each divisible by 13.

The figure 8 recurs as a factor at every second term.

The symmetrical character of these octagonals, as to their terminal figures will also be observed. At the interval of each ten numbers they continually repeat themselves.

1 8 1 0 5 6 3 6 5 0 ,

1 8 1 0 5 6 3 6 5 0 ,

The same terminal figures occur with a polygon of 18 sides, 28, 38, or any other number ending with 8.

Is there in this series any rule to ascertain the larger octagonal number, from the terminal figures? FOREST C. ORR.

A few remarks on this correspondent's curious observations may be of interest to him. Hutton's rule for triangular numbers is:

"Multiply the proposed number by 8, and to the product add 1; if the sum is a square, the proposed number is triangular."

Yet, this is a simple rule of trial, and almost useless for large numbers. The particular place or link at which any polygonal number occurs is called its radix. The radix being given the corresponding octagonal number can be easily ascertained by the following rule:

"Multiply the radix by 3; subtract 2 from the product; multiply the remainder by the radix." $x(3x-2)$.

Let us take a few examples, for the radices, or number of terms, 198, 222, 420, 444, 642, 666, 864, 888.

The 198th octagonal term corresponding would be 117216.

222d	"	"	"	"	147208.
420th	"	"	"	"	528360.
444th	"	"	"	"	590520.
642d	"	"	"	"	1235208.
666th	"	"	"	"	1329336.
864th	"	"	"	"	2237750.
888th	"	"	"	"	2363856.

THE "FALLACY." (Vol. III, pp. 172, 198; IV, p. 262.) "E. T. Q." seems to think that his view of these expressions is the only correct one, and that all other interpretations are wrong. Now let us see what it comes to by the acknowledged principles of algebra.

First, $\frac{1}{-1} = \frac{-1}{1}$; now let us clear this of denominators by multiplying the numerator in each member by the denominator of the other member, thus: $1 \times 1 = 1$, and $-1 \times -1 = 1$, or $1 = 1$ as it should be. Again, take $\frac{\sqrt{1}}{\sqrt{-1}} = \frac{\sqrt{-1}}{\sqrt{1}}$; and do the same thing and we have $\sqrt{1} \times \sqrt{1} = 1$, and $\sqrt{-1} \times \sqrt{-1} = \sqrt{-1} \times -1 = +1$, where we are at liberty from the ambiguity to take the plus sign, and we have as before, $1 = 1$. Our friend "E. T. Q." will have to try again.

A. L. F.

QUESTIONS AND ANSWERS.

WHAT IS "THE FOURTH DIMENSION"? (Vol. IV, p. 399.) What are some of the illustrations and demonstrations to prove "the fourth dimension in space"? X. Y. Z.

In the *Academy*, February 12, 1870, Prof. H. Helmholtz published an article on geometrical axioms bearing upon the fourth power. In the quarterly journal entitled *Mind*, July, 1876, he enlarged the former paper, and extended it to 21 octavo pages. A professor Land critically examined this article calling it "metamathematical investigations," suggesting it to be metaphysical investigations; this article was replied to by Prof. Helmholtz in a subsequent paper of 14 octavo pages in support of what is called the "Non-Euclidian Geometry." These articles are illustrated by concave-convex lines to show pseudo-spherical surfaces, but to "third-dimensional beings," the dwellers on this earth, these articles are not easily to be understood, at least by the average mind.

In May, 1877, George Bruce Halsted of Johns Hopkins University took up the subject under the title of "New Ideas about Space," and discussed it in a manner more easily to be understood. "May not our space have a fourth demension?" He asks these two analogous questions:

1. "May we not be drawing wrong conclusions about space from our limited experience of space, just as the Greeks concluded that the earth was flat?"
2. If our conclusions so far are true, yet may there not be, in addition to the three dimensions we know, still another or fourth dimension in space."

He illustrates his paper. Let us take an easy illustration: Suppose beings not living *on the surface* of a sphere, but *in the surface* of a sphere, and so having no conception of the third dimension of space. Now, if they were only so small as to perceive only a small portion of their surface, they might easily think it a plane, as the ancients thought our earth, and so their gaometry would be the same as Euclid's. But, if they were originally created so large in proportion to their spherical surface as to be immediately affected by its positive curvature, then they would never gather any experience of parallel lines, or of geometrical similarity between figures of different sizes,

Some bold genius there among such beings might conceive the bold hypothesis of the third dimension in space, and demonstrate that actual observations are explained by it. Then they would have two sets of geometrical axioms, one set the same as ours, belonging to science and another resulting from experience in a spherical surface only, belonging to daily life.

The last discussion of this subject that has come to our notice is a pamphlet entitled "What is the Fourth Dimension?" by C. H. Hinton, London, 1887. This is the simplest reasoning of the subject by far for the ordinary student. Mr. Hinton brings one along delighted in his method of its discussion, and a person can see by faith that the fourth dimension is within his grasp, mentally at least. He reasons by analogy from the point to the line, from the line to the square, from the square to the cube, and from the cube to the "four-square" as he is pleased to call the fourth dimension. We have a straight line for a basis, 2 inches in length. The 2^2 is "2 square"; the 2^3 is "2 cube"; the 2^4 is 2 "four-square," or the fourth dimension. Each fact concerning this unknown new fourth dimensional figure has to be reasoned out. In the line there are 2 points; in the square there are 4 points; in the cube there are 8 points. How many points would there be in the "four-square"? That is to say, there are three numbers, 2, 4, 8. In the next figure, proceeding according to the same law, there would be 16 points. Points, 2, 4, 8, 16.

In the line there is 1 line; in the square there are 4 lines; in the cube there are 12 lines. How many lines would there be in the "four-square"? The rule is easily deduced by a little reasoning as with the points: "Double the number of lines in the previous figure, and add as many lines as there are points in the previous figure." In the cube there are 12 line and 8 points. Hence we get $2 \times 12 + 8$, or 32 lines. Lines, 1, 4, 12, 32.

We will keep in reserve our reasoning faculties and compare these relations in accordance with the analogy to be worked out from the three dimensions which we do know.

We want to know how many plain surfaces the "four-square" has. Hence, we must commence with the line which has none; the square has 1; the cube has 6. How many has the "four-square"? Consider how the planes of the cube arise. We double the number of

planes in the previous figure, and every line in the previous figure traces out a plane in the subsequent figure. Apply this rule to the formation of a square from a line. In the line there is no plane surface, and since twice 0 is 0, we get, so far, on surface in the square; but in the straight line there is 1 line, namely, itself, and this by its motion traces out the plane surface of the square. So in the square, as it should be, the rule gives 1 surface. Applying this rule to the cube, we get, doubling the surfaces, 12, and adding a plane for each of the straight lines, of which there are 12, we have another 12, or 24 plane surfaces in all in the "four-square." Surfaces, 0, 1, 6, 12, 24

	1st Dim.	2d Dim.	3d Dim.	4th Dim.
Points,	2	4	8	16
Lines,	1	4	12	32
Surface,	0	1	6	24

Therefore, it is possible to describe a figure in space, and by a course of reasoning and comparison it is within our power to describe all the properties of a figure in the fourth dimension.

Again, points bound lines, lines bound plane figures, planes bound solid figures; and solids must bound four dimensional figures. The "four-square" will then be bounded as follows: The cube by its motion generates the figure. The cube, in its initial position, forms the basis of the "four-square." In its final position it forms the opposite end. During its motion each of the faces of the cube give rise to another cube. The direction in which the cube moves is such that of all the 6 sides, none is in the least inclined in that direction. It is at right angles to all of them. The base, the top, and the four sides of the cube, each and all of them form cubes. The "four-square" will be bounded by 8 cubes. Recapitulating then, the "four-square" will have 16 points, 32 lines, 24 surfaces, and will be bounded by 8 cubes. If the "four-square" were to rest in space it would seem to us like a cube. To justify this conclusion we have only to think how a cube would appear to a two-dimensional being. The face of the cube being a square, the most a two-dimensional being could get acquainted with a cube would be a square.

We are all three-dimensional beings, and must reason from what we know. Now the problem before a third-dimensional being is to construct the "four-square" in perspective. Can it be done?

We do not think the compound word *four-square* a happy selection

for the "fourth-dimensional figure," by Mr. Hinton, as the word *square* has a surface impression on the brain, and some newly-formed word would be better to assist our faculties, and render the imaginable powers clearer.

What is wanted is the "four-square" content. We will not here inquire after four-dimensional beings, or whether they can tie knots in an endless cord returning to itself, or turn a hollow rubber ball inside out, and several other operations, leaving these subjects for future consideration.

"POURING OIL ON THE TROUBLED WATERS," (Vol. I, pp. 152, 211; II, pp. 335, 395.) From whence comes the proverb, "Pouring oil on the troubled waters" B. H. F.

Plutarch, born about A. D. 50, in his "Natural Questions," asks, "When the sea is sprinkled over with oil, why does it become calm?"

Pliny, who was born A. D. 23, wrote in his "Historia Naturalis": "*Omni [mare] alia tranquillari.*"

Aristotle, who died B. C. 323, wrote: "Because the winds slipping on the smooth oil, have no force, nor cause any waves."

Menzel, in his "Christian Symbolism," traced the potencies of oil on troubled water far back of Bede or Plutarch. Bede's "Ecclesiastical History" was completed about A. D. 634, and first printed about 1474. So Plutarch, Pliny, Menzel, and Aristotle, all ante-dated Bede in writting of "oil on the troubled waters." But what is the scientific theory or reason for this power of oil over the water? Can any one explain it?

CHARLES MARSEILLES, Exeter, N. H.

The *Nautical Gazette*, W. Gannon, editor, 73 Park Row, New York, for March 23, 1887, has a column on this interesting question. The editor has been gathering for years all the literature, and information possible on the subject, which he has published from time to time in his valuable journal.

WHAT IS AN IOTA? When a person says, "Not an iota of it," what is the supposed quantity? YOUNG MAN.

In answer to this question we will say that *iota* is the smallest letter of the Greek alphabet and corresponds to our letter *i*. It was derived from the Hebrew *jod*, and the Syriac *jadh*, and employed metaphorically to express the merest trifle. The expression "not a single iota,"

like the one in the question, is one of the several metaphors which has been used for ages, and was derived from the alphabet, as when *alpha* the first letter of the Greeks, and *omega* the last, are employed — "I am Alpha and Omega, the first and the last" (*Rev.* i, 11). "One jot (jod), or one tittle (point), shall in no wise pass from the law" (*Matt.* v, 18). The same metaphors existed in other languages.

Some curious examples of the use of letters as metaphors may be seen in Wetstein's and Lightfoot's works. We hear it said "a stigma is upon a person." *Stigma* is the name of the Greek ligature, a small character resembling a figure five (5) which was used to brand criminals with. The Hebrews used their final letter *Tau* for similar purposes—"set a mark upon their foreheads," (*Ezekiel* ix, 4).

In the Talmud (*Sanhed.* xx, 2), it is fabled that the Book of Deuteronomy came and prostrated itself before God, and said :

"O Lord of the universe, thou hast written in me thy law, but if a testament is defective in some parts it is defective in all. Behold, Solomon endeavors to root the letter jod out of me," (*i. e.* out of the original text,) "neither shall he multiply wives" (*Deut.* xvii, 16).

"The Holy Blesséd God answered," says the Talmud :

"Solomon, and a thousand such as he, shall perish, but the least word shall not perish out of thee."

This is a parallel to the early usage of the metaphor, and also to the sentiment quoted from Matthew.

THE LION AND THE UNICORN. What have been the variations from "the Lion and the Unicorn" in the arms of England during the reign of the kings and queens?

SARAH E. BURNS.

Ever since 1603 the royal arms have been supported as at the present time, by the English lion and the Scottish unicorn. Prior to the accession of James I, the sinister supporter was a family badge. Edward III, with whom supporters began, had a lion and eagle; Henry IV, an antelope and swan; Henry V, a lion and antelope; Edward IV, a lion and bull; Richard III, a lion and boar; Henry VII, a lion and dragon; Elizabeth, Mary, and Henry VIII, a lion and greyhound. The lion is dexter, *i. e.* to the right hand of the wearer or person behind the shield.

WHO WERE THE DOCTRINISTS. Can any one inform me who the Doctrinists were, and what was their doctrine?

LOGOS.

A political party which has existed in France since 1815. They maintain that true liberty is compatible with a monarchical government. They were so called because they advocate what is only a doctrine and dream. M. Guizot was a member of the party.

FRENCH CALENDAR.—1792-1806. The new calendar commenced September, 1792, and ceased January 1, 1806.

1792-93, year 1,	1799-1800, year, 8,
1793-94, " 2,	1800-01, " 9,
1794-95, " 3,	1801-02, " 10,
1795-96, " 4,	1802-03, " 11,
1796-97, " 5,	1803-04, " 12,
1797-98, " 6,	1804-05, " 13,
1798-99, " 7,	1805-06, " 14.

NAMES OF MONTHS.

Pluvôise, January,	Thermidor, July,
Ventôse, February,	Fructidor, August,
Germinal, March,	Vendémiaire, September,
Floréal, April,	Brumaire, October,
Prairial, May,	Frimaire, November,
Messidor, June,	Nivôse, December.

DJAFAR.

NAMES OF THE SAXON MONTHS. The Saxons gave seasonable names to their months as follows :

January—*Wulf-monath*, because wolves were very troublesome then from the great scarcity of food ; after the introduction of Christianity the name was changed to *Se-æftera gebla* (the after yule) ; it was also called *Forma-monath* (first month).

February—*Sgrote-cdl* (sprouting month) from the sprouting of pot-wort, or kele ; they changed it afterwards to *Sol-monath* (the returning sun).

March. *Hrèith-monath* (rough month) from the boisterous winds ; it was afterwards changed to *Length-monath* (lengthening month), and it was also called *Hlyd-monath*, meaning same as *Hrèith-monath*.

April—*Easter-monath* (orient or paschal month), showing their religion veneration in the customs, and faith.

May—*Tri-milchi-monath* (three milch) because cows were milked thrice a day in this month.

June—*Sere-manath* (dry month) because of droughts.

July—*Mæd-monath* (mead month) because the cattle were turned into the meadows to feed.

August—*Weod-monath* (weed monath) weed month, but weed signified vegetation in general.

September—*Gerst-monath*, or *Hærfest-monath* (barley month) ; but after the introduction of Christianity *Halg-monath* (holy month), the nativity of the Virgin Mary being on the 8th, the exaltation of the cross on the 14th, Holy-Rood day on the 26th, and St. Michael's day on the 29th.

October—*Win-monath* (wine month) the time of vintage ; it was also called *Teotha-monath* (tenth month), and *Winter-fylleth-monath* (winter full-moon month).

November—*Wind-monath* (wind month), when the fishermen drew their boats ashore, and ceased from fishing until the following spring ; it was also called *Blot-monath* (slaughter month).

December—*Mid-winter-monath* (mid-winter month) to correspond to June sometimes called *Mid-summer-monath* (mid-summer month). The Christian Saxons called this month *Se ærn gebra* (the anti-yule).

THE NAMES OF THE MONTHS. January—*Lauw-maand*, frosty month. February—*Spokkel-maand*, vegetation month. March—*Lent-maand*, lengthening month. April—*Gras-maand*, grass month. May—*Blou-maand*, blossoming month. June—*Zomer-maand*, summer month. July—*Hooy maand*, hay month. August—*Oost-maand*, harvest month. September—*Herst-month*, autumn month. October—*Wyn-maand*, wine month. November—*Slaght-maand*, slaughter month. December—*Winter-maand*, winter month.

THE MONTHS—THE PRECIOUS STONES—THEIR SENTIMENTS. — According to the Poles each month has its precious stone and sentiment.

January,	Garnet,	Constancy.
February,	Amethyst,	Sincerity.
March,	Bloodstone,	Courage.
April,	Diamond,	Innocency.
May,	Emerald,	Success in love.
June,	Agate,	Health and long life.
July,	Cornelian,	Content.
August,	Sardonyx,	Conjugal felicity.
September,	Chrysolite,	Antidote to madness.
October,	Opal,	Hope.
November,	Topaz,	Fidelity.
December,	Turquoise,	Prosperity.

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30.	Faith, Hope, and Charity.
29.	The Peace of God.
28.	Prayer, without ceasing.
27.	Solitude.
26.	The Inner Light.
25.	The Death of the Natural Man.
24.	Single-mindedness, or one affection, that of God.
23.	Abandonment of false humility, and the sin of doubt.
22.	Pride utterly crushed out.
21.	Self-glorification utterly abandoned.
20.	Conquest of fear.
19.	Watchfulness—the lamp always burning.
18.	Psalmody.
17.	Death of the carnal mind.
16.	Poverty as opposed to the love of accumulation.
15.	Chastity.
14.	Temperance.
13.	Conquest of idleness of mind and body.
12.	Restraint of all exaggeration and false representation.
11.	Silence.
10.	Shunning slander and evil speaking.
9.	Forgetfulness of injuries.
8.	Equanimity.
7.	Sorrow, the seed of joy.
6.	The constant thought of death.
5.	Penitence, or penance.
4.	Obedience.
3.	Giving up father and mother.
2.	Giving up all earthly goods and hope.
1.	Renouncement of the world.

LATIN-ENGLISH WORDS—COMPARATIVE DEGREE. The following eight words are of opposite relationship :

Superior—higher.	Anterior—before.
Inferior—lower.	Posterior—after.
Exterior—outer.	Ultior—remoter.
Interior—inner.	Citerior—hither.

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Vol. IV. July & August, 1887. Nos. 7 & 8.

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VOL. IV.

JULY AND AUGUST, 1887

Nos. 7 & 8.

"Pouring Oil on the Troubled Waters."

The notion that oil will smooth troubled waters is very old indeed. The Syrian fishermen have been wont, time out of mind, to pour oil on the sea, when caught in a storm far from land. The boatmen of the Persian Gulf have always been in the habit of towing, astern of their frail crafts, bladders filled with oil; these bladders are pricked so as to permit a gentle leakage of oil in the wake of their boat. Pliny tells us that, in his day, the Mediterranean sponge-divers used oil to obtain a smooth surface when they arose from the bottom of the sea. Dr. E. Halley states that sponge-divers in the Archipelago descend to the bottom of the sea with a piece of sponge saturated with oil, and by squeezing a little from the sponge they obtain a clear surface, whereby they can see much more clearly at the bottom. Ever since whale-hunting has been followed, it has been noticed that when a whale is "being made off," that is "the blubber flensed," the oily sea is smooth, no matter how rough the water beyond the range of the oil. Prof. Horsford, by emptying a vial of oil upon the sea in a stiff breeze, stilled the surface; and Commodore Wilkes, of the United States, saw the same effect produced in a violent storm off the cape of Good Hope, by oil leaking from a whale-ship. Among the herring-fishers of Shetland, the pilchard-catchers of Cornwall, in Northern Africa,

also in Samoa, and indeed, all over the world, oil is used, more or less systematically, for soothing the sea. Sometimes a mop steeped in oil is hung in the water, and sometimes pricked bladders.

Mr Shields laid perforated pipes under the dangerous bar across the mouth of Peterhead Harbor, and then pumped oil into them; the effect was that huge billows, from ten to twelve feet high, were reduced to petty waves, which any vessel could ride over in perfect safety.

Two Italians, crossing the Atlantic from Buenos Ayres, in 1881, were caught in a rough sea, but, by the use of oil, rode through the waves without shipping a bucketful. We are told of a captain who declared his steamer would have been lost in the Bay of Biscay had he not lulled the waves by pouring oil on them. Another case is on record of a schooner off Sable Island, which was seen tearing her way through a sea lashed into a white foam by a violent storm, and simply by ladling out oil she passed on safely, though otherwise she must have gone to the bottom. Once more, a vessel was caught in a hurricane, the breakers threatened to engulf her every minute, but oil was poured on the sea, and the vessel rode on in safety. There seems to be no doubt of the fact, that oil does smooth the surface of troubled waters. Let us now see what use the hagiographers have made of this fact:

The Devil, as prince of the powers of the air, is the evil principle that works mischief by storms, tempests, earthquakes, and destructive gales. The devils hated St. Nicholas for throwing down the temple of Diana, in Lycia, and when he was dead, used all their endeavors to prevent pilgrims from visiting his tomb. On one occasion a large number of pilgrims took ship for Myra; Satan, in the guise of an old woman, coming on board, said to the pilgrims, "I also wish to go to the tomb of St. Nicholas, but cannot do so now. Oblige me, therefore, by taking this cruse of oil, and burning it in the lamps on the Saint's sepulchre." This the pilgrims readily promised to do. When the ship was out in the middle of the sea, on the second day, a furious storm arose, and the crew expected the ship would be broken to pieces by the violence of the waves. Just at this juncture the spirit of St. Nicholas made its appearance, and said to the pilgrims, "Fear not, for none here shall be lost; but cast overboard the cruse of oil, for the old woman who gave it to you was the Devil." As soon as the oil was thrown over into the sea, it blazed into a great flame, and sent forth an odious stench of sulphur and sin, proving to a demonstration that it came from hell. The wind ceased, the sky cleared, the sea lulled, and the ship ran into the Lycian port.—*Lives of the Saints.*

As Germanus, bishop of Auxerre, in the fifteenth century was sailing to Britain, a horrible tempest was raised by the Devil, to drown the saint. He was fast asleep in the ship; but, being aroused by the shrieks of the perishing crew, he rebuked the storm. Then sprinkling, in the name of the Holy Trinity, a few drops of oil on the raging billows, immediately there was a great calm.—*Dissertations by Dr. Jostin.*

Before Vtta, a holy man, went to fetch the bride of King Oswin, he called on bishop Aida, who told him he foresaw a tempest, and gave him a cruse of holy oil for stilling the waves. All came to pass as the bishop said. The winds arose, lashed the waves into fury, and the ship would have been wrecked, had not Vtta poured the holy oil on to the waves, and bade them subside into a calm. — *Ecclesiastical History by Bede.*

Bede affirms that he heard this fact from Cymmund, a very creditable man, who was told it by Vtta himself. (See N. AND Q., Vol. I, pp. 152, 211; II, pp. 335, 395; IV, p. 328.)

FOREST K. GOLDSMITH.

QUOTATION—"CALL ME DAPHNE, CALL ME CHLORIS." (Vol. IV, p 299.) Please complete and tell the author of the quotation.

ANXIOUS, Baltimore, Md.

The line quoted is a part of one of the epigrams of Coleridge. It is found in the edition of the poetical works of Coleridge, Shelley, Keats, published by Thomas Cowperwaith & Co., Philadelphia, 1844, page 217. The whole epigram is as follows :

"I asked my fair, one happy day,
What I should call her in my lay;
By what sweet name of Rome or Greece,
Venere, Laura, Daphne, Chloris,
Carina, Lalage, or Doris;
Dorimene, or Lucrece.

Ah, replied my gentle fair,
Dear one, what are names but air?
Choose one whatever suits the line;
Call me Laura, call me Chloris,
Call me Lalage, or Doris,
Only—only call me thine."

ONE MORE THAN THE OTHER. The following problem has caused many a person to stumble. It should always be *spoken* to a person or party :

"Two men ate oysters for a wager; one ate ninety-nine, and the other ate one hundred, and *won*. How many did one eat more than the other?"

"WORDS, WORDS, Words, *Words*," exclaimed an over-critical person on the verbosity and superfluity of the English tongue, and then asks the question, "are other languages as prolific in words, for prefixes and affixes as ours?"

This question can best be answered by reference to some of those writers who make words, and hence language.

Stephen Pearl Andrews found the English language inadequate for him to express clearly his discovery of Universology, and he first prepared a vocabulary of eighty octavo pages, double columns, of newly-made and defined-words. This vocabulary he prefixed to his work, "The Basic Outline of Universology," in order that the student could thoroughly understand the meaning he designed to convey. Many of his words are now being used by our leading writers, and thus take their alphabetic places in the dictionaries. His words are systematically arranged in classes by their terminations in *ism*, *ismus* (plural *ismi*), *oid*, and *ology*. Some of Mr. Andrews's words are : altruistic, cardinismic, koinologicism, perpendiculism, catalogicismus, logicismus, conditionoid, universaloid, economology, inorganismology, etc.

Perhaps no author has made more adjectives from proper nouns than Ernest de Bunsen, author of the "Hidden Wisdom of Christ," "Keys of St. Peter," "The Angel-Messiah," etc. These books contain many words as follows : Adamic, Sethic, Enochian, Noachian, Melchizedekian, Abrahamic, Jacobic, Pharaonic, Sampsonian, Davidic, Solomonian, Danielic ; Johannean, Paulinian, Clementinian, Palesinian, Jerusalemic, Pentateuchian, etc.

Dr. Christian D. Ginsburg, in his work, "The Kabbalah : Its Doctrines, Development, and Literature," has these : beginninglessness, metempsychosisian, pentagrammaton, etc.

James Brown, in his "English Syntithology, Developing the Constructive Principles of the English Language," gives us hundreds of new words not found anywhere else ; for examples : chronodex and chronodiction ; poécrom, poeclade ; nepoecrom, nepoeclade ; phemic, preposthemic, prosechistic ; theatromic, cordiction, syllabane, etc.

The *Boston Journal*, in one issue, has Mexicanization, dispauperization, and misandrogynist.

The *New York Sun* has had mugwump, mugwumpian, mugwumpification, etc.

The anonymous author of "The Order of Essees among the Jewish People" has in this book Pythagoric, Pythagorical, Pythagoricians, and Pythagoreans.

A pseudonymous writer's work, entitled "Unpublished Writings," says "Abbé Louis Constant was unfrocked and stripped of his gown," referring to his excommunication from the Catholic clergy. Another writer says Jesus was crossed; that Stephen was petered; that Socrates was hemlocked.

Herbert Spencer, Thos. H. Huxley, Franz Delitzsch, J.^{W.} Powell (U. S. Bureau of Ethnology), and other modern writers, have coined hundreds of word not yet included in the dictionaries. Many of these words are of "sesquipedalian length," as Herbert Spencer expresses it; that is, one foot and a half long (prosodaical feet).

QUESTION. If we accept the orthodox view of the Noachic deluge, all mankind is descended from Noah and his family; according to the chronology of Archbishop Ussher the deluge occurred 2348 B. C., or 4225 years ago. Admitting 30 years to a generation, the remotest cousinship between any persons now living, is the 138th degree. Hence Caucasians, Africans, Malays, Mongolians, and American Indians are not more distantly connected than the 138th cousin. At a remote period, however, intermarriage of relatives was common, and probably reduces the degree to the 100th, or less. Therefore, the Chinaman who washes your clothes, my aristocratic reader, and the dark-skinned servant from Africa, are your 100th cousins at the very least. Admitting the correctness of this calculation, do not these facts throw doubt on the universal deluge?

DJAFAR.

"GONE TO GRASS." That common expression, "gone to grass," is not new Yankee, but good old English, dating back at least to a pen borne ten years before the renowned Queen Bess died; as witness George Herbert's sinewy stanza:

"O England! full of stunn, but most of sloth;
Spilt out thy flegme, and fill thy breast with glorie;
Thy Gentle bleats, as if thy native cloth
Transfused a sheepishnesse into thy storie:
Not that they all are so, but that the most
Are gone to grasse, and in the pasture lost."

HOCUS-POCUS. The papistical sacrament was called by the vulgar, at the dawn of the Reformation, "Jack-in-the-box," "Worm's-meat," and "Hocus-pocus." The latter epithet had its origin from the manner in which the priest mumbled the words, *Hoc est Corpus*. (This is my body, etc.).—*Disraeli*.

Questions and Answers.

BATTLE OF BENNINGTON—POEM. (Vol. IV, p. 300.) Where can a copy of the poem, on the "Battle of Bennington," by Rev. J. P. Rodman be found, which contains three stanzas:

"The morning came—there stood the foe;
Stark eyed them as they stood:
Few words he spoke—'t was not a time
For moralizing mood.

"See there the enemy, my boys!
Now strong in valor's might,
Beat them, or Betty Stark will sleep
In widowhood tonight."

PHILOS, Baltimore, Md.

The complete poem of Rev. Mr. Rodman on the Battle of Bennington, which gives an allusion to the famous laconic speech of Gen. Stark, can be found in the proceedings of the Bennington Historical Society. The proceedings are published annually giving a report of the yearly celebration, on August 16th, and which celebration has been omitted but once in 110 years.

The last verse, quoted by "PHILOS," should read *Molly* Stark, instead of *Betty*,—for the former was the General's pet name for his wife, though her true maiden name was Elizabeth Page. He had a whimsical fancy for giving pet names of the most absurd character, to members of his family and to intimate friends.

H. W. H.

"SKIN OF MY TEETH." Is there a passage in the Bible that reads, "I escaped by the skin of my teeth"?

D. M. D.

Not exactly as this correspondent quotes. The whole verse reads: "My bone cleaveth to my skin and to my flesh, and I am escaped with the skin of my teeth."—*Job* XIX, 20.

The Douay version (Catholic) gives an entire different rendering: "The flesh being consumed, my bone hath cleaved to my skin, and nothing but lips are left about my teeth."

ORIGIN OF THE WORD "SPHERE." What is the origin of the word *sphere* as applied to a *globe*?

LOGOS.

Webster says *Sphere* is from French, *sphère*; Persian, *espera*; German, *sphäre*; Spanish, *esfera*; Italian, *sfera*; Latin, *sphæra*; Greek, *sphaira*. These words all show the source of the word. The root of the word, however, as given by Dr. Kenealy, is the Hebrew *sphr*, and means "a book," because the concavity of the heavens was called by the Hebrews a *scroll* or book. Their word for book is *sepher*, or *sphere*, and anciently there was a library at Debir, which previously gave t

name to that city—Kirjath-sepher, or *city of books* (*Judges* i, 11; *Isaiah* xxxiv, 4).

COMPOSITION OF THE HUMAN BODY. (Vol. IV, p. 318). Huxley's table of the weight of the different parts of the human body, is not less interesting than another table, the authorship of which we do not know. It shows the composition of a person's body weighing 154 pounds, in the elementary substances, as follows :

Elements.	Pounds.	Ounces.	Grains.
Oxygen,	111	8	0
Hydrogen,	14	6	0
Carbon,	21	0	
Nitrogen,	3	10	0
Phosphorus,	1	2	88
Calcium,	2	0	0
Sulphur,	0	0	219
Chlorine,	0	2	47
Sodium,	0	2	116
Iron,	0	0	100
Potassium,	0	0	290
Magnesium,	0	0	12
Silica,	0	0	2
Total,	154	0	0

This is rather a humiliating view to take of one's self; yet it is thoroughly scientific as well as scriptural. "For dust thou art, and unto dust shalt thou return."

DJAFAR.

THE TETRAGRAMMATON ? (Vol. IV, p. 254.) What is the *Tetragrammaton*, mentioned in N. AND Q., Vol III, p. 95 ? X. Y. Z.

The word Tetragrammaton is derived from the Greek *tetra*, four, and *gramma*, letter; and is the term applied to the four-lettered sacred name of Deity—i. e. I H V H. It is vocalized in English as *Jehovah* in the Old Testament. The Jews held it in great veneration, and wove it into many a verse in the Hebrew text. The initials of the four Hebrew words of Psalm xcvi, 11, are I H V H; while the finals of the four Hebrew words of Exodus iii, 13, are I H V H; others might be cited. (See a five-page article on this word in Vol. III, pp. 5-9, of N. AND Q).

The Pentagrammaton is a similar term applied by Dr. Ginsburg to the five-lettered name I E S U E, in Hebrew; in Greek, I E S O U S; in English, J E S U S (*Luke* i, 51).

The Hierogrammaton (sacred letters) is yet another similar term used by Dr. Kenealy, and applied to the sacred characters or symbols used in all ages to represent the Deity. It is especially applied to the circle as a symbol of The Eternal.

THE GOLDEN RULE. Who is the author of what is known as *The Golden Rule*, found in Matthew VII, 12 : " All things whatsoever ye would that men should do to you, do ye even so to them " ?

JONATHAN.

" The Golden Rule " so called is usually credited to Confucius who was born, according to James Legge, an authority in Chinese classics, June 15, 551 B. C., at Shang-ping. His own name was Kong, but his disciples called him Kong-fu-tse (the Master or Teacher). Dr. Legge's work on " Chinese Classics " Book xv, Sec. 22, says :

" Tsze-kung asked Kong-fu-tse, saying, ' Is there one word which may serve as a rule of practice for all one's life ? ' The Master said, ' Is not RECIPROCITY such a word ? What you do not want done to yourself, do not do to others. ' "

Marcenus R. K. Wright published in, 1870, the " Life, Moral Aphorisms, and Terseological Teachings of Confucius. " They are condensed in " One Hundred Confucian Precepts, " the 100th and last being the summation of all the others which he italicizes as follows :

" *Do unto another what you would he should do unto you ; and do not unto another what you would not should be done unto you. Thou needest only this law alone ; it is the foundation and principle of all the rest.* "

DEMONSTRATIONS OF PYTHAGOREAN PROPOSITION. (Vol. IV. p. 299.) How many distinct demonstrations are there of the " 47th proposition of Euclid, " here given, and where can a collection of them be found ?

" The square described on the hypotenuse of a right-angled triangle is equivalent to the sum of the squares described on the other two sides. " — *Davies' Legendre*, Bk. IV, Prop. 11. X. Y. Z.

Stephen Chase, late of Dartmouth College, in his work, " Geometry, " page 153, says a Mr. Hoffman published a work on the " Pythagorean Proposition, " at Mayence, in 1819, giving 28 demonstrations or methods, of which Prof. Chase gives five.

John M. Richardson, now of Daingerfield, Texas, published in *The Mathematical Monthly*, Vol. II, No. 2, 1859, a collection of 32 demonstrations, with geometrical diagrams.

G. H. Harvell, of Ada, La., is now publishing a collection of dem-

onstrations in the columns of the *Ohio Teacher*, having commenced in September, 1886.

THE MUSIC OF THE SPHERES. (Vol. IV, p. 299.) Was the Pythagorean harmony known as "The Music of the Spheres," a foresight or gleam of some law of harmony of their arrangement, motions, etc., as Bode's Law of distances, Newton's Laws of gravitation, Kepler's Law of analogy, etc. ?

X. Y. Z.

Many persons have caught a vista or foregleam of future discoveries, who are called seers. Pythagoras saw the harmonies of the universe, which have been formulated into demonstrated laws.

Swedenborg wrote many things in his "Principia," which have at the present day been proved to have been foregleams to him.

Shakespeare's line, "I will put a girdle around the earth in forty minutes," has been accomplished by the telegraph, by which a message has been sent around the globe in less than forty minutes to the office from which it started.

Oëne Wronski, a Russian, author of "Absolute Reform of Human Knowledge," has given us "The Universal Mathematical Formula," or "The Supreme Law of Mathematics," expressed in the following terms :

$$Fx = A 0. \cap 0 + A 1. \cap 1 + A 2. \cap 2 + A 3. \cap 3 + \text{etc., etc.}$$

This formula was presented to the Institute of France in 1810, and received its approval through a committee composed of Lagrange and Lacroix, although it is practically ignored by the scientific world. This formula is the foundation of all those formulæ which are now known for the development of functions, the latter formulæ being only special instances of Wronski's.

CLOSING THE EYES IN PRAYER. Why do people close the eyes engaged in prayer?

STUDENT.

Undoubtedly the practice has come down from primeval times when the sun-worshippers turned their faces to the east to catch his early return, and hence the necessity, on account of the sun's dazzling rays.

Later the altar was established in the center of the tent at evening, around which the worshippers knelt in a circle, with the eyes closed as a matter of necessity. Hence the custom obtains now ; yet some worshippers at the present time who pray with eyes open. Some say by closing the eye they can better concentrate their thoughts.

PRONUNCIATION OF ENGLISH NAMES. How are such names as *Norwich, Warwick, Thames*, etc., pronounced? AMERICAN.

The following examples will give the information as to the pronunciation of English names :

Abergavenny,	<i>Abergenny.</i>	Knollys,	<i>Knowles.</i>
Beauchamp,	<i>Beecham,</i>	Leicester,	<i>Lester.</i>
Bolingbrooke,	<i>Bullingbrook,</i>	Majoribanks,	<i>Marchbanks.</i>
Brougham,	<i>Broom.</i>	Marylebone,	<i>Marrabun.</i>
Bulwer,	<i>Buller.</i>	Norwich,	<i>Norridge.</i>
Cholmondeley,	<i>Chumley.</i>	Salisbury,	<i>Sawlsbry.</i>
Cirencester,	<i>Sissister.</i>	S. Leger,	<i>Sillinger.</i>
Cockburn,	<i>Cobun.</i>	Talbot,	<i>Torbut.</i>
Colquhoun,	<i>Cohoon.</i>	Taliaferro,	<i>Tolliver.</i>
Cowper,	<i>Cooper.</i>	Thames,	<i>Tema.</i>
Grosvenor,	<i>Grovenor.</i>	Warwick,	<i>Warick.</i>
Hawarden,	<i>Harden.</i>	Wemyss,	<i>Weems.</i>
Holborn,	<i>Hobun.</i>	Windham,	<i>Winam.</i>

A Grandiloquent Communication.

{ AERIAL MANSION, HIGH PILLICODY,
 { ROYAL RAMPARTS, THAMES TUNNEL,
 { LODNON, JULY 4, ANNO DOMINI, 1857. }

VICTORIA REGINA AND ALBERTUS PRINCEPS :

To His August Highness, Honorable John Merrill, Director of the Pool, Arctic Philosopher, Practical Philanthropist, &c., &c., &c., &c., &c.

Monsieur : I am commanded by Her Most Gracious Majesty's ROYAL HIGH BUTLER, to communicate to your Obsequious Highness, the most trans-atlantic compliments of AB DEL HADER, and acknowledge the receipt of your most learned, altiloquent, and circumambient State Document, dated August 28th, 1854, which has been under the profound consideration of the GRAND LAMA ever since.

The GRAND LAMA fully concurs in your new view of the hole in the earth, and believes it was caused by a derangement of the North Pole, effected by the scintillation of the hyperborean Aurora Borealis, which has shaken the barques of Sir John Franklin from the outside into the inside of the pole, as you say.

The GRAND BUTLER takes this opportunity to express to your Obsequious Highness, the great satisfaction which the GRAND LAMA feels after the perusal of so learned a document, and begs to salute you as a man of transcendent prognostigations. By Royal command, and my own Royal pleasure ; signed in the Grand Culinary Department, with a Royal Goose Quill.

VICTORIA
 BY ALBERTUS.

QUESTIONS.



1. Please explain the following phenomena of the moon : Revolution, *Rotation*. Libration, Nutation, Evection, etc. JONATHAN.

2. Give some information of the origin and use of the following words : Argus-eyed, Hydra-headed, Janus-faced, etc. JONATHAN.

3. What is a *Republican* government, and a *Democratic* government as each italicized word means ? V.

4. The author of the poem, "A Vision of Hell, Purgatory, and Paradise," was Durante Alighieri, born in Florence, 1265, died, 1321. Why is he always known as *Dante* ? V.

5. (a) Who were the seven children of Charles Francis Adams ?

(b) Where were the seven debates between Lincoln and Douglas enacted ?

(c) Who were the seven persons killed on the trial (first) trip of the Great-Eastern ? ANXIOUS.

6. Who are the authors of the following :

(a) "Come under my plaidie,
Come, sit down beside me."

(b) "Ask of mother Earth why oaks are made
Taller and stronger than the weeds they shade."

(c) "The Devil in search of a wife."

D. T. T.

7. What is the name of the author of "Adrift at Sea ?" F. G. S.

8. Who is the author, of the following, and where found ?

(a) "The fire that in my bosom burns, is lone as some volcanic isle."

(b) "The wise and active conquer difficulties. By daring to attempt them, sloth and folly shiver and sink at sights of toil," etc.

MR. GREEN.

9. Will some one of your readers furnish me with a list of words ending with "ceed"—taken from history, geography, natural history, botany, mathematics, the sciences, etc ? ADMIRER.

10. Can any reader inform me of the source of the following : "And with the turn of the tide the ships sailed away from the harbor ; and the shores of their beloved land grew misty in the distance."

CURIOUS.

11. What is the origin of the expression, "That will do to tell to the marines" ? B., Oakville, Penn.

12. What was the origin of *Brandywine* where the battle was fought on September 11, 1777 ? G.

1. Please translate the following couplet, found in a note in Dr. G. D. Ginsburg's "Kabbalah," page 48 :

Littera gesta docet, quid credas Allegoria,
Moralls quid agas, quo tendas anagogia.

JONAS.

2. Is the historical "Helen of Troy" of the *Iliad*, the same person as "Helen of Tyre" mentioned in historical works ?

G. S. CLARK.

3. What are the duties of the *Hayward*, an officer appointed or elected by the municipal government in some of the New England cities ?

F. J. P.

4. Can any one give satisfactory statistics or other facts to show that the Hebrews are more healthy and freer from diseases than other people ?

CHESTER.

5. Where can be found the line, "Packed his knapsack on his back, and marched away like a soldier" ?

A. B. C.

6. Who are the authors of the two following quotations ?

(a) "He killed her, yes he killed her,
By the pollard willow tree."

(b) "My heart is in the Highland, and in my dreams I see the Hebrides."

7. When were the words, "United States," first used as applying to the American Union ?

ANONYMOUS.

8. Which is the more correct mode to express the *ism* in proper nouns : Darwinism, or Darwinianism ? Zoroasterism, or Zoroasterianism ?

J. J. J.

9. Who were the Xerophagists, and what were their principles and practices ?

LOWELL.

10. George Fields, in his work, "Nature and Revelation, or the Cosmos and the Logos," says (p. 272) : "In Glamorganshire, Wales, a crop of *barley* was produced, where *oats* had been sown, and the farmer to whom it belonged declared that the *ground had not been stirred for thirty years*." An old farmer told me that barley can be raised any year by simply mowing off the tops of the oats when about four inches high. Can this be verified ?

YOUNG MAN.

11. How many different persons by the name of *Jesus* are there mentioned in the New Testament ?

STUDENT.

12. Where is, or was, the country known as *Cocaigne* ?

STUDENT.

13. What is the meaning of the several initials placed at the beginning of various chapters in the Al Korân, the sacred book of the Mohammedans : A. L. M. ; A. L. M. S. ; A. L. R. ; A. L. M. R. ; C. H. Y. A. S. ; T. H. ; T. S. M. ; T. S. ; Y. S. ; H. M. A. S. K. ; H. M. ; K. ; and N. ?

SEARCHER.



THE STAFF OF ADAM,

AND

THE SHEM-HAMMEPHORASH.

A PAPER READ BEFORE THE SOCIETAS ROSICRUCIANA, MASSACHUSETTS
COLLEGE, IN BOSTON, JUNE 2, 1887.

By S. C. GOULD, VIII°

The Rabbinical writings give us the account of a *Staff* which Rabbi Eliezer briefly describes, as follows :

"The Holy and Blesséd God gave to the first man in Paradise a Staff which had been created between the stars (that is in the evening of the Sabbath). Adam gave it to Enoch; Enoch to Noah; Noah to Shem; Shem to Abraham; Abraham to Isaac; Isaac to Jacob. Jacob carried it into Egypt and gave it to his son Joseph. When Joseph died, his household goods were seized by the Egyptians and carried to the palace of Pharaoh. Among the personal goods of Joseph was this Staff, which had descended to him from Adam. This was put among the special treasures of Pharaoh."

We are told that on the Staff was cut a peculiar name which the Hebrews call the *Shém-hammephórash* (SH-HMPHRSH), a word explained to mean "the Branch of Fire." Its transliteration is given by that adept in occult science—Francis Barrett—as *Schém-hamphoræ*, which no doubt is an easier vocalization. Mackey, Mackenzie, and Oliver spell it *Shem-Hamphorash*. McClintock & Strong adopt the

first given above—*Shem-hammephorash*. This was the word applied to the *name* of God—the *hierogrammaton* (holy letters) on the Staff.

The Rabbins declare that if any one were able rightly and devoutly to pronounce that name, he would by this means be able to create a world. It is alleged, indeed, that two letters of the name were inscribed by an adept in the kaballah on a tablet, and thrown into the sea, A. D. 1542, raising a tempest, and destroying an entire fleet.

The rationale of the virtues of the *Shém-hammephorash* is described by Alfred Vaughan, in his *Hours with the Mystics*, to be as follows :

“The Divine Being was supposed to have commenced the work of creation by concentrating on certain points the primal Universal Light. Within the region of these points was the appointed place of our world. Out of the remaining luminous points, or foci, he constructed certain letters—a heavenly alphabet. These characters he again combined into certain creative words, whose secret potency produced the forms of the material world. The word ‘*Shém-hammephorash*’ contains the sum of these celestial letters, with all their inherent virtue, in its mightiest combinations.”

What is the *Shém-hammephorash* ? There is a certain text in Exodus (xvi, 19-21), which Dr. Christian D. Ginsburg says, contains the *seventy-two* lettered-name of God. Each of the three verses is to be written with seventy-two letters in a peculiar manner. Each verse is arranged in an eight-by-nine parallelogram, of seventy-two squares ; in these squares are placed the Hebrew letters.

The first is read, beginning at the right, downward, then the second column from the right, and so on. The first word is *Vajisa*.

The second is read, beginning at the top, from right to left. Again, this is read, beginning at the bottom, from left to right. The first word is *Vajabo*.

The third is read, beginning at the bottom, right to left. The first word is *Vajot*.

Extend the first verse into one line from left to the right ; the second verse from the right to the left under the first ; and the third verse from the left to the right under the second.

The letters subordinate to each other will make one name, and the seventy-two words thus formed make the seventy-two lettered-name of God, which the Hebrews call the *Shém-hammephorash*. To each of these words, if the divine names, *El* or *Yah*, be added, they

produce the name of seventy-two angels, each of whom carries the great name of God ; as it is written, says the Hebrews, " My angel shall go before them ; for my name is in him."

The names of the seventy-two angels thus formed are as follows ;

1. Vehuiah,	19. Leuuiah,	37. Aniel,	55. Mebahiah,
2. Ieliel,	20. Pahaliah,	38. Haamiah,	56. Poiel,
3. Sitael,	21. Nelchael,	39. Rehael,	57. Nemamiah,
4. Elemiah,	22. Ieiai el,	40. Ihiazel,	58. Ieila el,
5. Mahasiah,	23. Melahel,	41. Hahahel,	59. Harahel,
6. Lelahel,	24. Hahuiah,	42. Michael,	60. Mizrael,
7. Aehaiah,	25. Nithhaiah,	43. Vevaliah,	61. Umabel,
8. Cabethel,	26. Haaiah,	44. Ielehiah,	62. Iahhel,
9. Hazi el,	27. Ierathel,	45. Sealiah,	63. Annauel,
10. Aladiah,	28. Seehiah,	46. Ariel,	64. Mehekiel,
11. Lauiah,	29. Reiel,	47. Asaliah,	65. Damabiah,
12. Hahiah,	30. Oma el,	48. Miha el,	66. Meniel,
13. Ieiaz el,	31. Lecabel,	49. Vehuel,	67. Eia el,
14. Mebabel,	32. Vasariah,	50. Daniel,	58. Habuiah,
15. Hari el,	33. Iehuiah,	51. Hahaziah,	69. Rochel,
16. Hakamiah,	34. Lehaiah,	52. Imamiah,	70. Iibamiah,
17. Leviah,	35. Chavakiah,	53. Nana el,	71. Haia el,
18. Caliel,	36. Monadel,	54. Nithael,	72. Mumiah.

The number seventy-two thus gave the number for the appointing of seventy-two elders of Israel by Moses, by advice of his father-in-law Jethro ; also for the appointment of seventy-two persons for the translating of the Hebrew Scriptures into Greek called the *Septuaginta* (Seventy) ; also for the appointment of seventy-two disciples by Jesus, as some versions read (*Luke x, 1*).

Jethro, a priest of Midian, who was also one of the greatest magicians in Egypt, had charge of Pharaoh's museum. Pharaoh himself was also well skilled in enchantments ; he and Jethro read what was inscribed upon the Staff. Jethro took and kept it many years in his own house, and finally one day he took it in his hand and walking in his garden, stuck it in the ground and left it. When he entered the garden again he saw that it had sprouted, and blossomed, and had ripe almonds on it ; he left it standing in the garden and allowed no one to go near it. Jethro made a rule that every suitor who sought the hand of one of his daughters, should be taken to the Staff in the garden, observe the writing upon the same, and be asked to read it.

Moses, the future law-giver of Israel, was then a young man ; but

when grown to manhood he went out over Egypt to see the oppression of his brethren who were in bondage in that country, and he saw an Egyptian strike a Hebrew, which he resented and took his part. History says that Moses struck the Egyptian down and he died and was buried in the sand. But on the following day, two brothers, Abiram and Dathan, of the tribe of Reuben, got into a quarrel, and Moses reprimanded them for disputing; whereupon Dathan asked him, "Who made thee a ruler and a judge over us? Wilt thou kill me as thou didst the Egyptian, yesterday?" Moses, at these questions, fled into Midian. Standing by a well slaking his thirst, Zipporah, a daughter of Jethro, came thither to draw water, whereupon Moses acquainted himself with her, and asked her hand in marriage. Zipporah informed him that her father would first require a visit to a certain tree planted in his garden, and he accompanied her home. Jethro took him at once to the Staff which had sprouted, and Moses being "learned in all the wisdom of the Egyptians, and mighty in *words and deeds*," at a glance read the *Shém-hammephorásh* cut upon the Staff. The angel Saxael had instructed him as to the uses of the word. This discovery of the Staff greatly pleased Moses who previously believed that it would finally be found. Jethro detained him in confinement seven years, he being ministered to during the time by Zipporah. She loved Moses. Jethro, unwilling to offend others who solicited her hand, told the several suitors that he who could read and pluck up the Staff whereon was cut *the peculiar name*, should have his daughter Zipporah. Several of the strong chiefs of Edom and Midian tried their skill and strength, but to no purpose. Moses first gave thanks to God, addressing Him by His four-lettered name, and then taking hold of the Staff, it immediately followed his hand. Then Jethro cried out, "This is a man called of God to be a prince and a great man among the Hebrews, and to be famous throughout the entire world"; and he gave him Zipporah to wife. It is said that soon after, while Moses was tending his father-in-law's sheep in the field, Jethro came and demanded back the Staff; whereupon Moses cast it on the ground with other rods for Jethro to take his choice, but the Staff immediately returned to the hand of Moses before Jethro could take hold of it, and therefore he was obliged to let Moses retain it.

Pharaoh king of Egypt, who reigned when Moses fled from that country, was now dead, and Moses took his wife Zipporah and his son

Gershom and set out for Egypt. While journeying thither he encountered the burning bush — a thorn tree, said to have been one of the first trees grown in Paradise. Being interrogated there by an angel, "What is that in thy hand?" Moses answered, "A rod." He was informed that the name—the *Shém-hammephordsh*—on the Staff was the representative of power from the "God of your fathers, the God of *Adam*, the God of *Enoch*, the God of *Noah*, the God of *Shem*, the God of *Abraham*, the God of *Isaac*, the God of *Jacob*, the God of *Joseph*," and promised Moses that he would be his God also. This is in the exact line of the descent of the preservation of the Staff, it will be observed. The narrative in the Book of Exodus gives us a variety of the wonderful deeds performed by Moses by means of that Magic Staff; how he and his brother Aaron appeared before Pharaoh and cast down their Staffs or rods, and they immediately became basilisk serpents, said to have been identical with those in the Garden of • Eden; and all Egypt heard the shrieks of the serpents, as it is said that all living creatures heard the shrieks of the tempter of Eve when it was deprived of its legs and made to lick the dust after the Fall. Weil relates that Pharaoh became alarmed, crawled under his own throne, and cried out to Moses: "O Moses, take hold of the serpent, and I will do what you desire." After this example of the magic power of this Staff a contest was had with Pharaoh's magicians (Jannes and Jambres), when Moses' rod became a serpent and swallowed up all the serpents of Jannes and Jambres, who were at once, we are told, converted and worshipped the True God.

Passing by many other details of the exploits of Moses, we are informed that when leaving Egypt he stretched forth the Staff over the Red Sea and the waters immediately parted for the Israelites to pass through on dry land. Again, at Horeb "Moses lifted up his hand, and with his rod he smote the rock twice, and the water came out abundantly." The same Staff was also represented to be Aaron's Rod and it expressly states in the Book of Numbers, "Behold, the rod of Aaron, for the house of Levi was budded, and brought forth buds, and bloomed blossoms, and yielded almonds." Aaron's rod (which was the same as the Staff of Moses) was "to be kept for a token," and it was put away with the tables of stone in the Ark of the Covenant, preserved by Joshua, the successor of Moses.

We are informed that the initial letters of the ten plagues of

Egypt were also cut upon the Staff, formed into three Hebrew words :

D.Ts.CH ; Gh.D.Sh ; B.A.Hr.B.

We will not attempt any explanation of the plagues, but give them here as they pertain to the narrative, and constitute a part of the exploits of Moses on account of his possession of the Staff.

1. The plague of blood which lasted seven days.
2. The plague of frogs which covered the entire land.
3. The plague of lice both of man and beast.
4. The plague of swarms of flies.
5. The plague of the murrain of beasts.
6. The plague of boils upon man and beast.
7. The plague of thunder, and lightning, and hail.
8. The plague of locusts over all the land.
9. The plague of darkness over all the land.
10. The plague of the death of the first-born.

The Mohammedans give a different order to the signs, as follows :

1. The rod changed into a serpent.
2. The whitened hand.
3. The famine.
4. A deluge, when the Nile rose over the land so that every man stood in water up to his neck.
5. The locusts.
6. The anommals—two-legged animals smaller than locusts.
7. The water turned into blood.
8. The surplus of frogs.
9. The turning to stone of every green thing throughout the land.
10. The blackness of darkness.

Joshua took charge of the Ark and its contents and the Staff descended to David whose entire history is closely connected with it. He mentions the it in the twenty-third Psalm : "Thy rod and thy Staff, they comfort me."

Solomon well understood the meaning of the *Shém-hammephordsh*, and the Staff was of great advantage to him in the construction of the Temple, in the discovery of gold with which to adorn it, and its furnishings. He no doubt was as familiar with its uses and powers as Moses. There are many deeds ascribed to Solomon which were said to have been accomplished by the Staff.

Solomon is said to have had a six-pointed star, or two interlaced triangles, engraved upon his ring, known as *Sigillum Solomonis* (the seal of Solomon), which was supposed to be the same as the Shield of

David, engraved with Hebrew characters, or the words: *Atah Gibor Lolam Adonai* meaning "Thou art strong in the eternal God." The initials (*AGLA*) of these Hebrew words form a new word and were engraved upon the Shield. Solomon was esteemed by the common people rather as a great magician than as a great monarch; and by the signet which he wore, on which the talismanic seal was engraved bearing a tetragrammatonic word, he was thought to have accomplished the most extraordinary deeds, and by it, and the possession of the Staff of Adam, to have enlisted in his service the labors of the genii in the construction of his magnificent Temple.

When the numerals from 1 to 12 are properly placed at the intersections of the lines and the points of the two interlaced triangles forming Solomon's seal, each of the four numbers in the six lines added together are *exactly* 26. This sum is the same as the *Tetragrammaton* (IHVH). I, 10; H, 5; V, 6; H, 5: $10+5+6+5=26$.

* The twelve guardian angels who ruled over the twelve personages who had had possession of the Staff, from the creation down to the time of Solomon, and who were more or less acquainted with its virtues, are thus enumerated by Francis Barrett:

- | | | |
|-----------------------------|------------------------------|-------------------------------|
| 1. Adam, <i>Raziel</i> . | 5. Abraham, <i>Zadkiel</i> . | 9. Moses, <i>Saxael</i> . |
| 2. Enoch, <i>Metatron</i> . | 6. Isaac, <i>Raphael</i> . | 10. Joshua, <i>Haniel</i> . |
| 3. Noah, <i>Zaphkiel</i> . | 7. Jacob, <i>Peliel</i> . | 11. David, <i>Cerviel</i> . |
| 4. Shem, <i>Jophiel</i> . | 8. Joseph, <i>Gabriel</i> . | 12. Solomon, <i>Michael</i> . |

When the temple was plundered, the Staff, undoubtedly with the tables of stone in the Ark with other holy vessels, was taken and carried to Babylon.

Zechariah the prophet, one of the captives who returned to Jerusalem after the captivity, knew that the Staff was taken to Babylon, and without doubt he brought it back with him. He says in his Book of Prophecy:

"Hear now, O Joshua the high priest, thou and thy fellows that sit before thee, for they are men wondered at; for behold, I will bring forth my servant, The BRANCH." (*Zech.* III, 8.)

The Revised Version reads "they are men which are a sign."

The Smith Version translates the last clause to read, "Behold me bringing my servant, The Sprout." Again, Zechariah speaks of the Staff, recalling no doubt the great assistance it had been to Solomon in the construction of the Temple:

"Behold the man whose name *is* the BRANCH, and he shall grow up out of his place, and he shall build the Temple of the Lord." (*Zech.* vi, 12.)

Again, Zechariah says: "I took my Staff, *even* Beauty." (*xi*, 10.)

The returned exiles from the captivity were perfectly familiar with the history of the patriarchs, prophets, and kings, and their exploits, the accounts of which had come down to them in their holy books, in the Talmud, in traditions, and in other sources. They remembered that Jacob "worshipped, *leaning* upon the top of his Staff," and told his sons what they might expect for themselves and their generations. To Judah he said:

"The Sceptre shall not depart from Judah, nor a lawgiver from between his feet, until Shiloh come; and unto him *shall* the gathering of the people *be*." (*Gen.* xlix, 10.)

Judah, we are told, once left his signet, his bracelets, and his Staff, with one Tamar, as a pledge, till he should fulfill his promise to pay that person a kid, and redeem the much-prized talismans.

The Rabbinical writings say Jesus found the *Shém-hammphorásh* in the Temple, and inserted it in his thigh between the skin and flesh, and by its sovereign potency he wrought all his miracles.

The pronunciation of the Tetragrammaton (IHVH) was a subject of much variation in ancient times, and many conjectures as to its orthoëpy are given by Masonic writers.

Tradition says that the true pronunciation of the divine name was revealed to Enoch, and he transferred it to a triangular plate of gold, by the four letters *IHVH*. He knew these by the same being engraved upon the Staff in his possession. The vowels not being named, occasioned many differences in pronunciation in succeeding generations.

Methuseleh, Lamech, and Noah are said to have pronounced it *JUH* (*Yu-haw*). Shem, Arphaxad, Salah, Eber, and Peleg pronounced it *JEVE* (*Ye-waw*). Reu, Serug, Nahor, Tera, Abraham, Isaac, and Judah pronounced it *JOVA* (*Yo-waw*). Ezrom, and Aram pronounced it *JEVO* (*Yay-wo*); Aminadab, and Naasson, *JEVAH* (*Ye-way*); Salmon, Booz, and Obed, *JOHE* (*Yo-hay*); Jesse, and David, *JEHOVAH* (*Ye-ho-waw*). It will be observed that Enoch, Jacob, and Moses are omitted in this catalogue because the true pronunciation had been revealed to them personally.

Irenæus calls it *Jaoth*; Isidore calls it *Jodjod*; Diodorus Siculus,

and Macrobius call it *Yao*; Clement Alexandrinus calls it *Yau*. Theodoret says the Samaritans pronounced it *Yarah*; and the Hebrews, *Yah*. The received pronunciation is now *Jehovah*.

The *Mishna* says that "both priests and people, on the day of atonement, when they heard the Tetragrammaton pronounced, fell to the ground, and that the voice of the high-priest was heard as far as Jericho," a distance of about eighteen miles.

The word *Shém-hammephorásh*, according to that learned philologist Dr. E. V. Kenealy, is from the Hebrew שֵׁם (*Name*), שֶׁם (*Sun*), and פֶּרֶשׁ (*Branch of Fire*). The *Shém-hammephorásh*, engraved upon the Staff, shone forth in letters bright as the noonday sun to him who possessed this wonderful Staff and knew their import. The prophet Malachi knew the *name*, and had seen the Staff. He plainly refers to it (iv, 2), saying, "But unto you that fear my name shall the Sun of Righteousness arise with healing in his wings." Malachi himself was a messenger, as the word *Malachi* means "My Messenger."

Some suppose that Moses saw the *Shém-hammephorásh* for the first time in its glory-halo, by means of the burning bush near Mount Horeb; that the burning bush caused the *peculiar* name to shine forth from the Staff; while others suppose the burning bush to have been only a reflection of the divine name from the Staff; for "Behold, the bush burned [seemed to burn] with fire, and the bush *was* not consumed." David, it will be remembered, says that "He maketh His angels a flaming fire," no doubt referring to the burning bush. It was at this scene that Moses was asked: "What *is* that in thy hand?" And he said, "A rod."

The Egyptians were well acquainted with the art of rhabdomancy, and Moses practiced his divine art before them. Pharaoh, we are informed, asked Moses, Who *is* this Jehovah?

Moses had been already informed in regard to the name: "This *is* my name forever, and this *is* my memorial unto all generations."

The Egyptian word for the *Shém-hammephorásh*, is *Nuk-pe-Nuk*. The best English translation of the esoteric meaning of the word is in the Apocalypse (i, 4), "*Him* which is, which was, and which is to come." The Greek work *On*, a name of the Sun, or Fire, being rendered by *Him*. Potipherah was priest of On (*Heliopolis* "City of the Sun") in Egypt (*Gen.* xli, 45); his daughter Asenath was given to Joseph to wife, by Pharaoh.

The same symbol of a Sceptre is commemorated by Pausanias. The Chæroneans, he says, venerate above all the gods, the *Sceptre* which Homer says Vulcan made for Jupiter. This sceptre Jupiter gave to Apollo; Apollo gave it to Hermes. In his hands it is the *caduceus* often pictured with wings, only another symbol of the Staff with the buds, leaves and blossoms. Hermes gave it to Pelops; Pelops gave it to Atreus; Atreus gave it to Thyestes; Thyestes gave it to Agamemnon, "king of men." It was sometimes denominated the *Spear*. He (Pausanias) says, "that it contains something of a nature more divine than usual is evidence from hence, that a certain splendor is seen proceeding from it."

Pausanias says the person to whom this sacred sceptre was committed, placed it in a temple destined for the purpose, and the people worshipped it daily; that the Staff was called the brazen tripod of Pelops, and that it contained the knowledge of things past, things present, and things to come.

AN ANCIENT SCEPTRE.



NO. 1.

The Staff of Adam has also been interpreted in another light by that learned and exhaustive writer, E. V. Kenealy, who bases his exposition on the following verse from the Song of Moses :

"When the Most High divided to the nations their inheritance, when he separated the Sons of Adam, he set the bounds of the people according to the number of the children of Israel." (*Deut. xxxii, 8*).

The Septuagint or Greek version reads "according to the number of the angels (messengers) of God," in place of the last clause above, and which reading is supported by many linguists as the correct one. According to his theory the Staff of Adam was the representative of the whole drama of human progress from the creation of man to the *apocatastasis* (restitution of all things); that the whole period of human history is measured by Naroses, or periods of 600 years; that "the twelve angels (messengers) of God" were divinely appointed Messiahs who succeeded each other by re-incarnations. These suc-

cessive Messiahs each held in possession the mystic Staff of Adam, and that the Staff is still in existence.

The messengers commenced 600 years after the *twenty-four ancients* had prepared the way and presided over *In-the-beginning*. The twenty-four elders are believed by many to be the twelve angels of God "before the world was," and the twelve ruling zodiacal angels. The former twelve, according to three authorities, were :

1. Gabriel, who presides over Paradise, and over the cherubim.
2. Michael, who presides over virtues, and commands the nations.
3. Raguel, who presides over punishments on all the planets.
4. Raphael, who presides over the spirits of men.
5. Sarakiel, who presides over the spirits of the children of men.
6. Uriel, who presides over clamor, and terror.
7. Saxael, who instructed Moses in the uses of the divine name.
8. Phanuel, who was intrusted with the numbering of all mankind.
9. Azrael, who presides over death.
10. Israfil, who presides over the resurrection.
11. Zadkiel, who presides over clemency, benevolence, and justice.
12. Samuel, who preside over the birth of children.

The zodiacal angels are enumerated by Francis Barrett, author of *The Magus*, as follows :

1. Malchidiel for *Aries*. 2. Asmodel, for *Taurus*. 3. Ambriel for *Gemini*. 4. Muriel for *Cancer*. 5. Verchiel for *Leo*. 6. Hamiel for *Virgo*. 7. Zuriel for *Libra*. 8. Barbiel for *Scorpio*. 9. Adnachiël for *Sagittarius*. 10. Hanael for *Capricornus*. 11. Gabiel for *Aquarius*. 12. Barchiel for *Pisces*.

These twenty-four elders (*ancients*) represent 2400 years of pre-Adamite or primeval history. Dr. Kenealy's theory places at intervals of about 600 years, or periods called *Naroses*, twelve Messiahs, one for each Naros, as follows :

1. Adam (*Oannes*) who appeared A. M. 3000 ; he was also called Musagetes. The Sanscrit word for the Lotos is Padma (pronounced *Padam*). He was called the Lotos Messenger.
2. Enoch (*Anûsh*) who appeared A. M. 3600 ; he was also called Metatron. The Korân calls him Edris (the Learned).
3. Fo-hi (*Menu*) who appeared A. M. 4200 ; he is identified with Noah whose true name was Mah-Nu (the Great). He was called by the Assyrians T'el-Nu (the renewer). The Book of Jasher says that Methusaleh called the child Noah (rest) ; but Lamech called him Menahem (the Comforter).
4. Brigoo (the Bright) who appeared A. M. 4800 ; he is identified

with the first Buddha (the Wise). He was also call Topilkin (our Son), and was a Saviour in the East.

5. Zaratusht (Zoroaster) who appeared A. M. 5400 ; his name is explained to mean " King of Light." He was author of the *Zend-Avesta*. He possessed an extensive knowledge of all the sciences and philosophy then known to the world.

6. Thoth (Hermes) who appeared A. M. 6000 ; his name is from Tautah (the Father). The real name of Thoth is supposed to have been Osarsiph. Bryant says the Egyptians acknowledged two personages under the titles of Thoth or Hermes. The first (Adam) was the most ancient of the gods and the head of all. The other was styled the second Hermes, and called Trismegistus (thrice-greatest) ; the second one accords with the sixth messenger ; he was the author of the *Divine Pymander*.

7. Amosis (Moses) who appeared A. M. 6600 ; he is the Moses of the Pentateuch, — the Great Lawgiver. Josephus calls him Mouses (the Waterman). Cheremon calls him Tesithen ; and he calls Joseph Peteseeph, and says Tesithen and Peteseeph were both scribes.

8. Lao-Tseu (Elijah) who appeared A. M. 7200 ; he was always associated with Jesus ; he and Amosis being with Jesus at the Transfiguration on the Mount. Lao-Tseu (Man of Peace and Wisdom) was the author of a book of divine thoughts, the *Y-King* (the Right Road).

9. Jesus (Christ) who appeared A. M. 7800 ; he was called Jesus (the Saviour), also Christ (the Anointed). He often spoke of his two immediate predecessors—Moses and Elijah—of whom he was a re-incarnation. He is now believed to be the *Shiloh* prophesied by Jacob (Gen. XLIX, 10) ; the "*Rod* out of the stem of Jesse" (Is. II, 1) ; "the man whose name is the Branch" (Zech. IV, 12).

10. Ahmed (Mohammed) who appeared A. M. 8400 ; the name Ahmed (the Illustrious) occurs in Haggai II, 7, and is translated in the common version *Desire* (one to be desired). He was of the tribe of the Koreshites. Koresh (the Sun) is alluded to by Isaiah. Ahmed himself claimed to be the *Paraclete* (the Comforter), or the *Periclyte* (the Illustrious) as he read it.

11. Chengiz-Kkan (Prester John) who appeared A. M. 9000 ; he was supposed to be the celebrated Tartar emperor who converted the East to the True God. His name Chengiz-Khan (King of Kings) was in accord with his sceptre and his conquests. His sway was well nigh universal

12. Parasu-Rama who is to appear A. M. 9600 ; he is called Parasu-Rama by the Hindûs ; Imâm Mahidi (one who joins together) by the Mohammedans ; the New Messiah (Christ) by English-speaking people ; and there shall be given him "a reed like unto a rod." (Rev. II, 1).

The above is a very brief mention of the twelve messengers covering the entire time of human history as seen by the late Dr. Kenealy. The mystical Staff was in possession of eleven of the messengers, and will be in the hands of the coming twelfth. The learned author says he saw a mystic Staff at Lapmark at the house of one Niemesele. It was a square-sided stick, with fine gilt work and carving upon it. It was used as the ensign of office for the Chief or Governor of the place. No amount of money could buy it, as the safety of the place and people were believed to depend upon it, similar to the *Ancile* of the ancient Romans, and the *Palladium* of ancient Troy. Clarke (*Travels* x, 516) does not mention the age of this mystic rod, but it is probably the copy of one very ancient. We here give a copy of this much-prized Sceptre.

On this Rod there are carved ten hieroglyphs, and in each, it will be observed, is seen that very ancient symbol, the Tau Cross **T**.

According to Mallet, not a single one of these letters is Runic (*Northern Antiquities* p. 232). The ten hieroglyphs signify the names of the of the Ten Avatars.

The first hieroglyph at the left is the triple Tau and signifies Adam the first angel messenger. "I am Aleph and Tau, the first and the last (Adam)."

The second is the logotype *Æ*, which is the initial of *Enoch* the second messenger or angel Metatron "the seventh from Adam" in lineal descent.

The third is a pure Chinese symbol, and also the triune sign, and signifies Fo-Hi. He is identified with Noah and the age of the Atlantean deluge. For in his days was Eber, from whom came the name *Ebrew* or Hebrew; he begat two sons, "the name of one was Peleg; for in his days was *the earth divided*." John Kitto (*Cyclopædia*, II, p. 393) says "the earth was *pelegged*." The other son was Joktan (*Gen. x, 25*) who is supposed by some Egyptologists to have built the great pyramid Jeezeh. Fo-Hi was the *first-third* angel-Messiah. He wrote the *Cova*, or "Lineation," which contains much ancient philosophy and wisdom.

The fourth is also a Chinese symbol, with its triple Tau, and indicates Brigoo. Noah was 600 years of age when the deluge occurred, we are told. Topilkin (our Son) or Brigoo was saved from a deluge

of water. The same account says the deluge ceased at the sound of "a voice proceeding from the heart of a mountain"; that is, a cleft in a rock. *Bragi* of the Scandinavians was the god who carried the trumpet, "the sound of which could be heard throughout all the world."

The fifth is an ancient Tau cross and signifies Zaratusht. Fire-worship was figuratively God-worship. It was founded principally at Persepolis (City of Splendor). Spitama (the Most Beneficent) Zaratusht was in direct communication with Ahura Mazda (the all-knowing Lord).

The sixth symbol stands for Thoth or Hermes, Thoth-Hermes or *Thothmes*. He was the *second-third* Messiah or the "thrice-greatest." His mission ended the sixth *Naros* (600), or the first *Saros* (3600) of the twelve angel-Messiahs. His code is briefly told by the *Smaragdine Tablet*.

The seventh symbol is an equilateral triangle standing on one of its angles; this signifies Amosis who knew of the triangular plate of gold engraved with the Tetragrammaton by Enoch; on this symbol stands the *Nehustan* raised by Moses in the wilderness. The exploits he accomplished by the peculiar name are too familiar to repeat. The *Pentateuch* is ascribed to him.

The eighth is a Chinese symbol and signifies Lao-Tseu who was always associated with the ninth messenger (Jesus). He is also often spoken of by the *Evangelists* (proclaimers of the messengers) under the name of *Elias* (Elijah), and as "the voice of one crying in the wilderness," similar to the fourth messenger (Brigoo), all indicating re-incarnations. The doctrine of metempsychosis seems to be plainly exemplified by this theory. Hengstenberg, in his *Christology*, maintains at length that Michael was no other than Jesus (Christ). He was the *third-third* angel-messenger.

The *ninth symbol* is said to be designed for Ahmed; the six lines represent a *Naros* (600) which was the period for his appearance after the ninth messenger (Jesus).

The tenth symbol on this Staff is the letter Z with the double cross, a characteristic emblem of power (lightning), the initial of *Zeus* the god of the forces of heaven. It stands for Zengis, another form for Chengiz-Khan, the eleventh messenger, whose kingdom approached a universal monarchy.

The symbol of the twelfth messenger will be a *key*, and he will be the "Key-keeper of the Fountain of Life." In his hand he will carry the Mystic Staff of the first Adam, which is preserved for him as a *Sceptre* to guide the nations. He will be the *fourth*-third messenger and unlock mysteries that have been kept secret from the foundation of the world, for which developments all people are now becoming prepared. He will be expected to harmonize and fraternize the world.

The triple Tau in each symbol signifies trinities which the twelve messengers represent. The seventh (Amosis), the tenth (Ahmed), and the eleventh (Chengiz-Chan), according to the author of this singular theory, represent the three *Cabiri* of ancient veneration. They were known by the names *Axieros*, *Axiokersos*, and *Axiokersa*. Some others add a fourth, *Casmillos*, to represent the coming *Sosiosh*. But the details cannot be given here.

AN ANCIENT SWORD - SCEPTRE.



NO. II.

There is another Rod mentioned in *Nimrod* (II, 20; III, 251) the sword-sceptre of Pelops, previously referred to in this paper, and which descended from one king to another, similar to the Staff of Adam. This book says "it is the prototype of all magical wands."

The second engraving shows an illustration of it. There are *twelve* symbols engraved on it, which are interpreted as follows :

The first symbol to the right is the initial of Oannes (Adam), and also represents the *sun*, one of the first objects of worship.

The second is a cross and signifies Enoch who, to perpetuate them, engraved on two pillars the discoveries of his Naros.

The third is a snake, a Chinese symbol for Fo-Hi (Buddha, "the Wise"). He is the one who said, "Heaven is One; how can there be more than One God there?"

The fourth, the triangular points, were said to represent Europe, Asia, and Africa, which were left to Brigoo after he was saved from the water when the earth divided and Atlantis was lost.

The fifth is the sun and represents Zaratusht who symbolized the true God by the sun and fire-worship.

The sixth is the monad in the rude square to represent Thoth, who taught, and wrote many books on, the arts and sciences, and religion. He left those sublime truths engraved on the *Emerald Stone*.

The seventh, the several lines, represent Amosis and the Mystic Staff so potent in his hands.

The eighth, the square, is for Lao-Tseu. At the present day the same square is in the center of Chinese coins, and among many of their sacred symbols.

The ninth, the two parallels, denotes Jesus who was so closely allied with the eighth messsenger (Elijah), that they are always placed together.

The tenth, the monad in the equilateral triangle, represents Ahmed who said that "there was but one God, and Ahmed is his prophet."

The eleventh, the crescent, stands on the rod for Chengiz-Khan who endeavored to unite in some degree the religions of "the Cross and the Crescent."

The twelfth and last on this Pelopean Staff is the monad and the altar, or the reverse of the symbol of the sixth messenger (Thoth). Thoth-Hermes gathered the wisdom of all previous Naroses, a portion of which has been preserved to us in his *Divine Pymander*. The mission of the twelfth will be to collect the wisdom of ages which has been preserved in fragments that there may be one universal Volume of Truth, and he is to have the *Key* to the Book—the Magic Staff.

Such is a brief epitome of Dr Kenealy's theory of the drama of the world, and the twelve Messiahs as they appeared to him. The Staff of Adam was possessed by eleven of them, and will be in the hands of the twelfth. There is a wonderful similarity in the two illustrations of the Staff and the symbols on each.

Mercury of the Romans is the Hermes of the Greeks, and closely identified with the Thoth of the Egyptians. He was a priest-king and messenger of the gods, and a messenger of Jupiter in particular. He was the personification of the Egyptian priesthood the records of which had come to the Greeks in a very meagre form. He was the epitome of knowledge, endowed with all that pertains to magic, secrecy and mystery, and his very name has become in our day an arcane ad-

jective of *hermetic* mystery, *hermetically* sealed. He bears in his hand the *caduceus* or Staff, which sometimes has wings at its extremities. The same symbol (the *baton*) today is carried by our marshals in all processional bodies. It has, by some circumstance, perpetuated this idea in the name of one of our prominent American cities — *Baton Rouge* (Scarlet Wand).



Another representation of Hermes was perpetuated by the Greeks and Romans, in setting up bounds at the divisions of their lands, and gardens. Hermes was said to have taught agriculture, commerce, architecture; and various inventions were credited to him. His statue was thus held in great veneration, and some represent him holding the Staff. He is said to have received the "golden three-leaved Rod" from Apollo in exchange for a lyre which he had invented. Apollo was a son of Jupiter, and presided over prophecy, and at birth cried out he would declare the will of Jove. These mythological personages are only another version of the preservation of the Staff of Adam, and many allusions are made to it throughout the classics. (*Iliad* xxiv, 343).

Weale says that in architecture "Aaron's Rod is a rod with one serpent twined around it, while Mercury's Rod has two serpents."

Josephus (*Ant.* iv, 4,) tells us that there was strife among the twelve tribes as to which should have the honor of the priesthood, and even Moses feared for his own life, so great was the contention. Hence the principals of the twelve tribes were requested to bring each his rod with the name of his tribe written upon it. So each principal brought his rod, as did Aaron also, who had *Levi* written on his rod.

"These rods Moses laid up in the tabernacle of God. On the next day he brought out the rods, which were known from one another by those who brought them, they having distinctly marked them, as the multitude had noted also. But they saw buds and branches grown out of Aaron's rod, with ripe fruit upon them; they were almonds, the rod having been cut out of that tree. The people were so amazed at this strange sight, that though Moses and Aaron were before under some degree of hatred by the tribes, they now laid that hatred aside, and began to admire the judgment of God concerning them; so that thereafter the people applauded what God had decreed, and permitted Aaron to enjoy the priesthood peaceably."

The quotation from Josephus is only one record of many of the ancient customs and practices of *divination* called rhabdomancy (rod-oracles), which no doubt has been the foundation of many modern practices. It was carried to such an extent even in ancient times that it was condemned by the prophets: "My people ask counsel, and their Staff declareth unto them (*Hosea* IV, 12).

Sir Thomas Browne says it was practised by Nebuchadnezzar, and his rhabdomancers rendered the interpretations (*Vulgar Errors*) Book v, chapter xxii; and Brand cites from a manuscript of John Bell, derived from Theophylact, the *modus operandi*:

"They set up two *Staffs*, and having whispered some verses and incantations, the Staffs fell by operation of spirits. Then they considered which way each of them fell, forward or backward, to the right or left, and agreeably made responses, having made use of the fall of their Staffs for their signs."

This is the Grecian method of rhabdomancy; and Jerome thinks it is the same that is alluded to by Ezekiel (xxi, 21) when the king stood at "the parting of the way." Rabbi Noël says this was also the practice of the Hebrews, and that they peeled their rods on one side. Herodotus says the Scythians used rods of myrtle and willow, and that they always chose "fine straight wands."

Archbishop Newcome says that seven arrows were laid up in the temple of Mecca, but generally only three were used at a time. On one was written, "My Lord hath commanded me"; on another was written, "My Lord hath forbidden me"; and the third was left blank. If the first was drawn, they looked upon it as an approbation of the enterprise in question; if the second was drawn, they made a contrary conclusion; but if the third happen to be drawn, they mixed them, and drew over again, till a decisive answer was given by one of the others.

This belief in the existence of Divination, or the art of foretelling events, however variously manifested, appears to have been coëxtensive with a belief in Divinity, from which it derives its name. On this account, the Stoics considered the two propositions inseparable: *Sunt dī; ergo est Divinatio*.

Jacob, we are told (*Gen.* xxxi, 10) was informed in a dream in regard to the raising of ring-streaked and speckled cattle. He prepared several "rods of poplar, of chestnut, and of hazel" (more properly the wild almond), which he partially peeled and set in the water where

Laban's cattle drank, and by looking at which they brought forth ring-streaked and speckled young. Commentators widely differ as to the effect these rods produced on the sight of the animals' perception as to influence the markings of their offsprings. The Latin fathers considered the markings as natural, while the Greeks considered it as miraculous. Gesenius says the word translated "hazel" in the above quotation (*Gen. xxx, 37*) is from *Luz* (the *almond-tree*) while, the word translated "almonds," where Aaron's rod is reported to have "budded, bloomed, and yielded almonds" (*Num. xvi, 8*), is *shaked* (the *almond-fruit*).

The hazel, or wild-almond, it seems, has, from its remarkable properties, come down to us by the name of *Hamamelis Virginica* (witch-hazel); and *Ulmus Montana* (witch-elm, or wych-elm).

The pamphlet by Charles Latimer, (of Cleveland, Ohio,) entitled *The Divining Rod* illustrated with the scene narrated in the Book of Numbers (xx), is a work replete with his experience with the *Virgula Divina*.

The properties and potencies of the Staff or Rod under various names, have been the subjects of for many pens.

Many relics, legends, traditions of the Staff and the Rod can be mentioned from history, which record the phenomena produced.

St. Gregory of Nyssa, in his *Life of St. Gregory Thaumaturgist*, gives an account of stopping the overflow of a river by the planting of a Staff :

"The river Lycus having overflowed its banks, threatened to destroy the village and flood the fields. St. Gregory, called the Thaumaturgist, planted his Staff between the river and the village, saying to the torrent, 'Thus far may be thy overflow, but no further.' The next morning the Staff had become a green tree; and whenever the Lycus in its overflow came up to this boundary, it stopped and did the villagers no harm."

There are some very remarkable parallels in ancient and modern history as to the uses of the Staff.

Ralph Higden, in his *Polychronicon* (1360), says St. Patrick drove the serpents and other venomous reptiles out of Ireland by the potency of a Staff, known as "The Staff of Jesus," and that it is still preserved and held in great veneration. St. Patrick is represented in Christian art with a serpent coiled around a pastoral staff. We must also remember that the Staff and the Serpent are generally associated

together ; for instance, Adam Jacob, Moses, Aaron, Hermes, Buddha, Jesus, and Patrick are prominently identified with these association, and it is very plausible that there is yet an arcane and esoteric meaning attached to the *Staff and the Serpent* which we have not space to enlarge on here.

Joseph Wild, D. D., in his work, *The Lost Ten Tribes*, says of Tara :

"Jeremiah buried the ark of the covenant, tables of law, etc., and instituted the nine-arch degree of Masonry, to keep in mind its hiding-place—so all may understand ; (*Jer. III, 16*). This passage of Jeremiah means that when the ark is found, the ceremony will end ; for the ark has to be found and go before the Jews when they return to their own land. Jeremiah was the first Grand master (of this degree). He, too, is the real St. Patrick—simply the Patriarchal Saint, who became St. Patriarch, then St. Patrick."

Many persons at the present time, believe that the ark of the covenant, tables of stone, the rod of Aaron, etc., were buried, perhaps at Tara (Hebrew, *Arat* or *Ararat*), and will yet be found ; and that a positive proof is to be given to the world of their existence. It is somewhat remarkable that in the vegetable kingdom the plant known as Aaron's rod (*Sedum Telephium*) is also known as "live-forever," "life-ever-lasting," etc.

Closely interwoven with the sacred history of the Staff of Adam, is "the flaming sword which turned every way, to keep the way of the tree of life." Masonic writers generally agree that the guarding of the entrance of the Edenic garden is a prototype of the Masonic Lodge ; that the flaming sword in form was spiral and that the Tyler's sword should always be the same. Certain it is that there a deep significance attaches to these symbols. The cherubim is coëval with Adam (the man), the cattle, the beasts, and the fowls (*Gen. 1, 20*) — man, ox, lion, eagle (*Gen. III, 24*).

The study of this subject seems to reverse the common proverb that "bread is the Staff of Life," and makes "the Staff the bread of Life."

" Heaven is not reached by a single bound ;
But we build the ladder by which we rise
From the lowly earth to the vaulted skies,
And we mount to its summit, round by round."

LUX.

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"Go on, and the light will come to you." — *Jean D'Alembert.*

Vol. IV.

September, 1887.

No. 9.

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SEP 7 1887

MISCELLANEOUS

NOTES AND QUERIES,

WITH ANSWERS

"Be swift to hear, but slow to speak, and slow to anger."—ST. JAMES.

VOL. IV.

SEPTEMBER, 1887

No. 9.

'First in War, First in Peace, and First in the Hearts of his Countrymen.'

The reviewer of Mr. McMaster's second volume, in the last *Dial*, noticed his error in attributing to Judge Marshall, instead of Colonel Henry Lee, the authorship of the well-known sentence concerning Washington: "First in war, first in peace, and first in the hearts of his countrymen." The correct reading of this familiar quotation is in doubt. Marshall, in his "Life of Washington" (Vol. V, p. 767), prints the proceedings in the House of Representatives, and the resolutions read on the death of Washington, in which the sentence first appeared. The last clause there reads, "and first in the hearts of his fellow-citizens." Col. Lee, a week later, used the sentence in his oration before Congress, and makes it end with "countrymen," instead of "fellow-citizens." The "Annals of Congress" (1799-1801) p. 204 reports the resolutions read in the House, and ends the sentence with "countrymen." The "Annals," however, were not contemporaneous publications, having been made up more than twenty years later, by Gales and Seaton, from such material as they could find. The wording of the resolutions is so unlike that given by Marshall and other contemporaries, that the resolutions must have been reported from memory. "Washingtoniana," published at Baltimore in 1800, is a compilation, made up soon after the death of Washington, of public resolutions, testimonials of respect, and orations. The resolutions read in the House, appear there in precisely the words quoted by Marshall, except that the sentence under consideration ends neither with the

word "fellow-citizens," nor "countrymen," but with "country" (p. 110). Two pages farther on the same resolutions are given as adopted in the Senate, and the sentence again ends with "country." General Robert E. Lee, of the Confederate army was the son of Colonel Henry Lee; and in the life of his father, 1869 (prefixed to the reprint of Colonel Lee's "Memoirs of the Revolutionary War in the Southern Department"), quotes the sentence, on page 51, and ends it as Marshall gave it with "fellow-citizens." This statement might be regarded as authoritative as to the reading, if General Lee on the next page had not spoiled the inference by saying: "But there is a line—a single line—in the works of Lee which would hand him over to immortality though he had never written another: '*First in war, first in peace, and first in the hearts of his countrymen,*' which will last while language lasts." The question is still unanswered—"In what form will it last?" We venture to express the opinion that Colonel Lee used, on different occasions, both forms; and hence either form is correct. He was an ardent Federalist and a devoted military and personal friend of Washington during and subsequent to the war. His grief at the death of his dearest friend first took form in his own personal loss; and then, as a Virginian, in the loss his State had sustained. While in this frame of mind he wrote the resolutions read in Congress, ending with "his fellow-citizens"—which to him meant "Virginians." Colonel Lee having later been appointed by Congress to deliver an oration on Washington, as an expression of the grief of the nation, he again used the sentence, and gave it a broader meaning by changing "his fellow-citizens" to "his countrymen."—*The Dial*.

THE COST OF KING SOLOMON'S TEMPLE. According to the computation of Villalpandus, the talents of gold, silver, and brass used in the construction of the Temple amounted to £6,879,822,000. The jewels are reckoned to have exceeded this sum; but, for the sake of an estimate, let their value be set down for the same amount. The vessels of gold (*Vasa aurea*) consecrated to the use of the Temple are reckoned by Josephus at 140,000 talents, which, according to Chapel's reduction, equal £575,296,203. The vessels of silver (*vasa argentea*) are computed at 1,340,000 talents, or £489,344,000. The silk vestments of the priests cost £10,000; and the purple vestments of the singers cost £2,000,000. The trumpets amounted to £200,000. To these expenses must be added those of the other materials, the timber and the stone, and the labor employed upon them, the labor being divided thus: there were 10,000 men engaged at Lebanon in hewing timber (*silvicidæ*); there were 60,000 bearers of burdens (*vectores*); 80,000 hewers of stone (*lapidicinæ*); and 3,300 overseers (*episcopi*); all of whom were employed for seven years, and upon whom, besides their wages and diet, Solomon bestowed £6,733,977 (*donum Solomonis*). If the daily feed and wages of each man be estimated at 4s. 6d., the sum

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| Asturia—Saint Ephrem. | Naples—Saint Januarius. |
| Austria—Colman and Leopold. | Navarre—Fermin and Xavier. |
| Bavaria—George, Mary, and Wolfgang. | Norway—Anscharius and Olaus. |
| Bohemia—Wenselaus, Methodius, Norbert, John Nepomuc, Adelbert, Cosmas, Damian, and Cyril. | Oldenburg—Mary. |
| Brabant—Peter, Philip, and Andrew. | Parma—Hilary, John Baptist, Vitalis, and Thomas. |
| Brandenburg—John Baptist. | Poland—Stanislaus and Hederiga. |
| Brunswick—Andrew. | Pomerania—Mary and Otho. |
| Burgundy—Andrew and Mary. | Portugal—Sebastian, James, and George. |
| Denmark—Anscharius and Canute. | Prussia—Mary, Adelbert and Andrew. |
| England—George and Mary. | Russia—Nicholas, Andrew, Wladimir, and Mary. |
| Flanders—Peter. | Sardinia—Mary. |
| France—Mary, Michael, and Denis. | Savoy—Maurice. |
| Germany—Martin, Boniface, and George. | Scotland—Andrew. |
| Hanover—Mary. | Sicily—Mary, Vitus, Rosalie, and George. |
| Holland—Mary. | Spain—James the Great, Michael, Thomas à Becket, and Edward. |
| Holstein—Andrew. | Suabia—George. |
| Hungary—Mary and Louis. | Sweden—Bridget, Eric, Anscharius, and John. |
| Ireland—Patrick. | Switzerland—Martin, Gall, and Mary. |
| Italy—Anthony. | Venice—Mark, Justina, and Theodore. |
| Leon—Isidore, Pelagius, Ramiro, and Claude. | |
| Luxemburg—Peter, Philip, and Andrew. | |
| Mecklenburg—John the Evangelist. | Wales—David. |

Many cities and towns bear the name of their patron saint, to whom the principal church is dedicated, as St. Remo, St. Sebastian, St. Malo, St. Omer, St. Quenstin, St. Die, St. Asaph, St. Albans, St. Cuthbert, St. Botolph (Boston), St. Ives ; Peterborough, Bury St. Edmund's, St. Marychurch, etc.

"POURING OIL ON THE TROUBLED WATERS." (Vol. IV, p. 333.)
The scientific theories regarding the action of oil in calming "troubled waters" vary somewhat, but they are substantially as follows :

The qualities of oil, necessary to consider in this respect, are :

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| 1st. Its specific gravity. | 4th. Its repulsion to water. |
| 2d. Its viscosity. | 5th. Its lubricating qualities. |
| 3d. Its insolubility. | |

All these are essential in order to produce the result.

1st. *Specific gravity.* Oil is lighter than water and so floats on the surface.

2d. *Viscosity.* Oils vary in this respect ; but ordinary oils, and especially coarse oils used for this purpose, are sticky or viscous, and form a network, so to speak, over the surface of the water.

3d. *Insolubility.* If oil was not insoluble in water, these other qualities would be of no use, as the oil would mix with the water and disappear.

4th. *Repulsion to water.* This is important, as otherwise the oil would not keep so persistently at the surface. There is only a little difference in the weight (a difference of about 9 % only), and the oil, were it not for its strong repulsion to water, would be much more easily rolled under the surface, as pieces of hard wood, which are about as light as oil. (Oil is heavier than soft woods).

5th. *Lubricating qualities.* To understand the full effect of this quality we must know that the lubricating quality of oil supposed to be caused by the shape of the molecules of which it is made. The molecules of liquids are supposed to be smooth, hard, slippery, and rounded, so as to more easily move among themselves. The particles, or molecules, of water are supposed to be not perfect spheres, but though rounded, yet oblong, like beans ; while the molecules of oil are perfect spheres, so as to be able to roll in all directions, like marbles. Now the air presses on all surfaces (at sea level) with a weight of fifteen pounds to the square inch, or over two thousand pounds to the square foot. When the air is moved along, as in the case of the wind blowing, it is something like moving along a solid weight. If the surface is smooth over which you move this weight, it moves pretty easily, comparatively. If you now add water to the surface, the weight is not moved any more easily, or only a very little so. Add oil, however, and there is the greatest difference. The molecules of the

oil act like rollers, and the weight moves easily. With the water, its molecules, though hard, smooth, and rounded, could not roll well, as they are not perfectly round. The wind, then, passes over the oil easily, and the molecules roll over each other. The wind passing over the water above drags more ; the molecules, in the case of the water, cannot roll over each other easily, and so are piled up together in the shape of waves.

To show the force of cohesion between floating particles, to illustrate the netlike action of the oil, nearly cover the surface of a bowl of water with small pieces of cork, and then try to separate them by blowing upon them. You will find you will have to blow quite hard.

"Pouring oil on the troubled waters" ; the phenomenon is so noticeable to any one near the sea in observing the effect of the oil from dead floating fish, making a long, calm streak to leeward ; or the same effect produced by an oily fishing boat, that the idea must be very ancient, and is used as a simile by authors of all countries and times, and was not unlikely a proverb among the inhabitants on the borders of the Mediterranean long before there was any literature. Any statement professing to give the origin of the phrase should be doubted, as the author named would not probably be the author of the simile.

D.

"TROUBLED WATERS." Another word about oil on water. What was the first appearance in English literature of the verbal expression, "to pour oil on troubled waters" ? The metaphorical use of the word "troubled," and the distributive plural "waters," both stamp the phrase as that of a landsman, and probably a poet. This peculiar phraseology must have had a comparatively modern origin. It has been suggested that it may have come into use by analogy with the apocryphal story in the New Testament about the "troubling of the waters" of the pool of Bethesda (John v). But is not this rather far-fetched ?

CHAS. MARSEILLES, Exeter, N. H.

MALFATTI'S PROBLEM. (Vol. IV, p. 272.) The remarks on "Malfatti's problem" as published in the N. AND Q. April, 1887, I have found, since their publication, need modifying somewhat. Though Prof. E. B. Seitz published his solution of it in four different magazines to my knowledge, he never intimated but what he was the discoverer of the beautiful formulæ elicited therefrom. I have no

doubt but that he was, though some one else had arrived at exactly his results before him. It seems these same formulæ were printed in Hymer's "Trigonometry," an English work published in 1847. As Prof. Seitz was born in 1846, he was too young to have elaborated these formulæ as number one. At that time he was undoubtedly engaged on the problem of *kinetic energy*, or *living force* stored in nature's maternal fount.

In the year 1873, or 1874, Artemas Martin, LL.D., proposed in the *Educational Times* of London, Eng., the following problem :

"Find rational triangles whose sides, the radius of the inscribed circle, and the radii of Malfatti's circles shall all be rational numbers."

In the *Educational Times* "Reprint," Vol. XXII, pp. 70-71, two solutions were published; one by Mr. Martin, and the other by Prof. Asher B. Evans, of Lockport, N. Y. Mr. Martin found the sides to be 231, 250, 289; radii of Malfatti's circles, $14\frac{1}{2}$, $46\frac{1}{2}$, $49\frac{1}{2}$; these latter may be reduced to integers by multiplying them and the sides alike by the least common denominator of the fractions. Prof. Evans found the sides to be 500, 616, 676; radii of Malfatti's circles, $33\frac{1}{2}$, $94\frac{1}{2}$, $103\frac{1}{2}$, which may be reduced to integers as previously stated.

B. F. BURLESON, Oneida Castle, N. Y.

SOLOMON. It is becoming a matter of doubt whether Solomon, as king of Israel, was not a fictitious character. The name justifies suspicion. It is written in Hebrew S L M A. The final *he* is an A, and *mem* is pronounced *mō*; making the name SALAMBA. The feminine of it is *Salambo*, the Syrian goddess. David or *Dud* (the darling) seems to be a name of Adonis, the darling god whom Syrian women mourned, as they sat around his emblem in the Sacred Ark; and *Dido* (Astarte) is the feminine. It is well known that *Salam* is the word *salutation* from the remote Orient to the Atlantic; and *tukts* a house of Salami were anciently to be found in many countries. One was in Kashmir, one at Istakar in Persia. Indeed, *Jerusalem* appears to be a name from the Greek *Hieron*, a sanctuary, and *Salem*, Peace, or Solomon. This is by no means impossible; Greek words are found in the Hebrew text of the Bible; and Jerusalem was named *Jebus*. Gen. Farley, however, gives no sanction to this history. "Every place connected with I E R was holy" he says; "but this name was current a thousand years before the Greek language." He reads the Hebrew designation I R S' L I M,—the "happy abode of *Ur*." That

would make it mean, city of the Morn (Psalm LXXII, 7). More likely, it would be the city of Peace (Irené), Salem being that signification. Then, too, the name *Romulus* was formed from *Roma*, so Salamba (Salem) comes from Salem, peace.

The visit of the Arabian princess, the queen of Sheba, must be read after the manner of the times. Women were anciently the messengers of peace. The legend of the Sabine brides of Roman husbands declares this. The story of Judith going to the camp of Holofernes, and being left alone with him in his tent illustrates the common practice. Xenophon relates a similar thing of Epyra, wife of the king of the Cicilians, who went like the Arabian queen on an embassy to Cyrus the Younger, and presented him with a great sum of money.

I read a story once in a French work, *Les Sociétés Secrètes*, I think, which represented Adoniram as the Grand Master of the Masons engaged in the building of the Temple of Solomon. As the Temple is ever building, the occult meaning is apparent. He it was that became the father of Queen Balkis' son. This, however, reads like a French amour, and not at all like an ancient story. The name *Balkis*, if the B, is for M, would mean a queen; otherwise it means desolate, empty. *Melikh*, her fabled son, means king; *Menilek*, prosperous.

Jedidiah is from the same root as David. *Dud* the *mastos*, love; a lover; *David*, the beloved one; *Jedid*, the dear — hence *Jedidiah* beloved of Yah.

PLAUTUS.

THIMBLES. The thimble was first used on the thumb, and hence was called the thumb-bell.

The best thimbles are made in France and Germany.

The first thimble ever seen in England was made in London about 300 years ago.

A lady in Boston has a thimble made from the elm at Cambridge under which Washington stood when in 1775 he took the oath as commander-in-chief.

The queen of Siam has a thimble made of gold in the form of a lotus bud—the lotus being the royal flower of Siam. It is thickly studded with diamonds so arranged as to form her name and the date of her marriage.

Ladies in China are very dainty about their thimbles. Some are carved from large pearls, banded with fine gold, on which are engraved all sorts of fantastic figures, the etchings of which serve to catch the needle.

QUESTIONS AND ANSWERS.

ŒCUMENICAL COUNCILS. How many Œcumenical councils have been held, and when and where ? V. C. HAMAN.

The Catholic Church recognizes twenty General Councils ; the *first*, held A. D. 50 ; the *second*, 325 ; and the *last*, 1870. but, according to the best authorities, there was no General Council held A. D. 50, so that the Council of Nice was unquestionably the first that was ever convened, and certainly it is the most celebrated in the whole history of the Catholic Church. The Councils were held as follows :

1. Nicæa,	A. D. 325	11. Third of Lateran,	1197
2. First Constantinople,	381	12. Fourth of Lateran,	1215
5. Ephesus,	431	13. First of Lyons,	1245
4. Chalcedon,	451	14. Second of Lyons,	1274
5. Second Constantinople,	543	15. Vienna,	1311
6. Third Constantinople,	680	16. Constance,	1414-18
7. Second Nicæa,	787	17. Basle,	1431
8. Fourth Constantinople,	869	18. Fifth of Lateran,	1512-17
9. First of Lateran,	1123	19. Trent,	1545-63
10. Second of Lateran,	1139	20. Council of the Vatican,	1870

At the Council of Nicæa (Nice) the canon of Scriptures was one of the chief objects of settlement, as to what books were to be received with authority, and what not ; also, the Eucharist received much discussion, the chief debate being on the *Homoöusian*. This word is from the Greek *homoöusious* and means " consubstantial with." According to Gibbon, this word was familiar to the Platonists, and the dogma of " consubstantiality of the Father and Son," was established by the Council of Nice, and has been unanimously received as a fundamental article of the Christian faith, by the consent of the Latin, the Oriental, the Greek, and the Protestant churches.

As to the exact number of bishops at the Council, authorities differ a little. Athanasius makes the number 318 in two places in his writings, which is also the number given by Jerome in his "Chronicon." Epiphanius twice gives the same number. Hilary and Rufinus likewise give the same. This number " 318 " is said to have been selected as the number to be present to correspond with the 318 "trained servants" of Abraham (Gen. xiv, 14), of whom "Eliezer of Damascus" was steward, or captain (Gen. xv, 2). The name *Eliezer*, according

- * to the value of the Hebrew letters which compose it made 318, as follows : A, 1; l, 30; i, 10 e, 70; z, 7; r, 200.

Aliezer (Eliezer) $1+30+10+70+7+200=318$.

Constantine himself was chief President of Council, and occupied the golden chair. On the left, it is said, sat his Western favorite, Hosius of Cordova in Spain, chief counsellor in ecclesiastical affairs in the West. On his right, sat his Eastern favorite Eusebius Pamphilus of Cæsarea in Palestine, whom Gibbon calls "the most learned of the theologians." Dean Stanley says he was clerk of the Imperial Closet, chaplain, interpreter, etc. Eustathius of Antioch in Syria, according to Theodoret, delivered the opening oration before the Emperor. Hermogenes, a deacon, was Secretary.

THE TWO HELENS. (Vol. IV, 344). Is the historical "Helen of Troy" of the *Iliad*, the same person as "Helen of Tyre," mentioned in other historical works ?

G. S. CLARK.

These are two distinct persons. "Helen of Tyre" was a handsome female mistress who accompanied Simon Magus about (Acts VIII, 9). Justin Martyr says that Simon Magus called Helen his *Hennoia*, or "divine intelligence." She was his ideal of beauty, and he believed they two were the incarnation of "divine intelligence." He called himself *Ego sum sermo Dei, ego sum Speciosus, ego sum Paracletus, ego Omnipotens, ego omnia Dei*; or "I am the Word of God, I am Perfection, I am the Comforter, I am the Almighty, I am the All of Deity." Simon Magus and Helen of Tyre flourished A. D. 30; while Helen of Troy lived B. C. 1184.

THE LAND OF COCAIGNE. (Vol. IV, p. 344.) Where is, or was, the land of Cocaigne ?

STUDENT.

An English poem, apparently written in the latter part of the thirteenth century, and which was printed by Hickes, from a manuscript now in the British Museum, describes "Cocaigne" as being far away out to sea, west of Spain. Slightly modernized, it runs thus :

"Though Paradise be merry and bright,
Cokaygne is of fairer sight;
What is there in Paradise?
Both grass and flower, and green ris (boughs).
Though there be joy and great dute (pleasure),
There is not one meat, but fruit.
There is not hall, bower, or bench,
But water, man's thirst to quench."

In Paradise are only two men, Enoch and Elias; but Cecaigne is

full of happy men and women. There is no land like it under heaven ; there it is always day and never night ; there quarreling and strife are unknown ; there no people die ; there falls neither rain, hail, nor snow ; neither is any thunder heard there, nor the blustering winds.

This Cocaïne seems to be a parallel of the word " Paradise " which the Hebrews borrowed from the Persians, and which at first designated the " Parks of the Achæmenidæ." The Greeks called them the " Elysian Fields." *The Fortunate Isles*, by S. Baring Gould, describes these " Happy Lands."

THE DRUZES. Who are the *Druzes*, and what are their religious tenets ?

THOMAS DIDYMUS.

The Druzes are a religious sect in Syria mostly, yet scattered from Damascus to the western coast of Europe. They covet no proselytes, shun notoriety, and keep friendly as far as possible with both Christians and Mohammedans, respect the religion of every other sect, but never disclose their own secrets. They rather discard the name of Druzes, and call themselves the " Disciples of Hamsa," or Hamsians.

Hamsa was their Messiah, or Christ, who came to them in the 10th century, from the " Land of the Word of God," and, together with his disciple, Mochtana Boha-eddin, committed this *Word* to writing, and entrusted it to the care of a few initiates, with the injunction of the greatest secrecy. They are denominated by many as Unitarians. Hamsa was to them the precursor of the last manifestation of the tenth *avatar* who is yet to come. Hamsa was the personification of " Eternal Wisdom." The Temeami is the " Divine Soul." The Druzes have seven great commandments which are imparted equally to all the uninitiated, which are as follows :

1. The unity of God, or the infinite oneness of Deity.
2. The essential excellence of Truth.
3. Toleration ; right given to all men and women to freely express their opinions on religious matters, and the latter as subservient to reason.
4. Respect for all men and women according to their character and conduct.
5. Entire submission to God's decrees.
6. Chastity of body, mind, and soul.
7. Mutual help under all conditions.

" Chastity, honesty, meekness, and mercy " are the four theological virtues of all Druzes, or Hamsians. Nothing can tempt these Syrian

Unitarian to go astray from what he is taught to be his duty. Only two in fifty years have become proselytes to Christianity. Hamsa and Jesus were mortal men, and yet Hamsa and Christos are synonymous terms as to their inner and hidden meaning. Both are symbols of the divine and higher soul of man. Only one person, to our knowledge, in this country, has been initiated into the secrets of the Druzes,—A. L. Rawson of New York City.

NAMES OF JESUS. (Vol. IV, p. 344.) How many persons are there by the name of Jesus mentioned in the New Testament?

There are five different persons named *Jesus* spoken of in the New Testament; four in the Old Testament; one in the Apocrypha; and nine in the works of Josephus—five in the "Antiquities of the Jews," and four in the "Wars of the Jew."

1. (*New Testament.*) Jesus, son of Joseph, called the Christ (Luke I, 31; Matthew XXII, 17).

2. Jesus Barabbas (Jesus son of Abba); Barabbas means "teacher's son." John Kitto says the Armenian version reads: "Whom will ye that I shall deliver unto you, Jesus Barabbas, or Jesus that is called Christ?" (Matthew XXVII, 17.) See the exhaustive dissertation on these two person's names in addenda to the "Gospel according to the Hebrews," by Edward B. Donaldson, p. 141.

3. Elymas Bar-Jesus (Elymas son of Jesus). Elymas means the "wise man," or the "sorcerer." (Acts XIII, 6-8). Simon Magus is Simon surnamed the Magician (Acts VIII, 9); while Elymas means the Magician.

4. Jesus, who is called Justus (Colossians IV, 11). He was a Jewish Christian, mentioned in connection with Mark the nephew of Matthew; John Mark (Acts XII, 13, 25), and Jesus Justus were two fellow-travelers of Paul.

5. Jesus (Joshua) (Acts VII, 45; Hebrews IV, 8). The name Jesus is the Greek for Joshua in Hebrew, and it would have been the more uniform to have made the name Joshua in the two verses cited.

1. (*Old Testament.*) *Hebrew* Joshua; *Greek* Jesus the son of Nun, of the tribe of Ephraim. His name was originally *Hoshea* (Numbers XIII, 8, 16), but Moses changed it to Jehoshua, Joshua, Jeshua.

2. Joshua, a Beth-shemite, owner of the field wherein the cart came which bore the ark on its return from the land of the Philistines (2d Samuel VI, 14, 18).

3. Joshua the governor of Jerusalem at the time of the reformation by Josiah (2d Kings XXIII, 8).

4. Joshua, son of Josedech, a high priest in the time of Haggai and Zechariah (Haggai I, 1, 12, 14; Zech. III, 1, 3, 9; IV, 11).

1. (*Apocrypha*.) Jesus, son of Sirach, is described in the text of "Ecclesiasticus" as the author of that book (I, 27).

It is not necessary to particularize the nine in the works of Josephus. A catalogue of them are given in McClintock & Strong's "Cyclopædia," Vol. IV, p. 873.

Then, the different persons in the Bible by the name of Jesus are : N. T., 5 ; O. T., 4 ; Apocrypha, 1 ; deducting one for No. 5 of the N. T. list, who is the same as Joshua the son of Nun of the O. T. list No. 1, the whole number is nine. Adding the nine mentioned by Josephus, and we have *eighteen* persons by the name Jesus.

THE TEN PRECEPTS. (Vol. IV, p. 304.) I note with interest the reminder of the Decalogue, "Persevere ye perfect men ; Ever keep these precepts ten." This distich leads me to ask if the Decalogue is the oldest formulated code of laws preserved in Sacred Writ ?

STUDENT.

We hardly know what breadth "STUDENT" designs by the words "Sacred Writ," as their scope varies with different persons. We are all accustomed to call Bible the Sacred Book, yet it generally contains the Apocrypha which, by some, is not esteemed as sacred.

There is preserved in some apocryphal books a more ancient code of laws than the Decalogue. It is called "The Seven Precepts of Noah," or if you choose the "Heptalogue." They are given in the works of Albert G. Mackey, M. D., S. Baring Gould, and others, and are as follows :

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| 1. Renounce all idols. | 5. Do not steal. |
| 2. Worship the only true God. | 6. Be just. |
| 3. Commit no murder. | 7. Eat no flesh with blood in it. |
| 4. Be not defiled by incest. | |

The "proselytes of the gates," as the Jews called those who lived among them without observing the ceremonial law, were bound to obey the seven precepts of Noah. The Talmud says the first six of this code were given originally by God to Adam, and the seventh afterwards to Noah. These precept were called the Noachic code, designed for the the Noachidæ, or descendants of Noah. Some suppose Paul was in session of the book containing the Seven Precepts of Noah.

WHAT IS THE EXPLANATION OF THIS PHENOMENA? "Since our arrival at the falls we have repeatedly heard strange noises coming from a direction a little to the north of west. It is heard at different periods of the day and night (sometimes when the air is perfectly clear and without a cloud), and consists of one stroke only, or of five or six discharges in quick succession. It is loud, and resembles precisely the sound of a six-pound piece of ordnance at the distance of three miles. The Minnetarees frequently mentioned this noise, as being like thunder, which they said the mountains made; but we paid no attention to it, believing it to have been some superstition, or perhaps a falsehood. The watermen also of the party say the Pawnees and Ricaras give the same account of a noise heard in the Black Mountains to the westward of them. The solution of the mystery, given by the philosopher of the watermen, is, that it is occasioned by the bursting of the rich mines of silver confined within the bosom of the mountains."—*Lewis and Clarke's Expedition*, Vol. I, p. 246.

This noise is mentioned in Irving's "Astoria," and is also spoken of by travelers in South America. What is known of these noises at the present time?

G. W. FRY, El Dorado, Kan.

HEIGHT OF THE PARIS TOWER. What is to be the height of the great tower which is about to be erected in Paris? It has been stated to be 984 feet.

JOHN.

A correspondent of the New York *Sun* (N. D. L.) recently replied to a similar statement about this tower; that this height would enable the vision to reach objects level with the earth's surface, ninety miles distant. This is shown to be wrong. The formula for calculating the distance is as follows: $D = 1.21 \sqrt{H}$. D is the distance to be seen in miles; H is the height in feet of the point of vision above the earth's surface. Taking the latter at 984 feet, we get for D 38 miles. The same formula shows us that to see 90 miles, we must be elevated 5,532 feet above the earth's surface, or more than a mile. At a height of 984 feet no object distant 90 miles would be visible, except the tip of a peak 1,825 feet in height. We think it doubtful if any such elevation is to be found within 90 miles of Paris, and if it is, it would require a clear day, baring mirage, to make it visible.

Lempriere's "Classical Dictionary," p. 511, Art. *Pharus* or *Pharos*, says:

"This tower, which was called the tower of *Pharus*, and which passed for one of the seven wonders of the world, was built with white marble, and could be seen at the distance of 100 miles."

The tower must have been about one mile and one-third in height.

REVOLUTION, ROTATION, EVECTION, LIBRATION, NUTATION. (Vol. IV, p. 343.) Explain these terms as applied to the phenomena of the moon. JONATHAN.

Barlow's "Mathematical and Philosophical Dictionary" explains these very fully and we refer "JONATHAN" to it for full details.

Revolution is the motion of a planet, satellite, or comet about a fixed center ; as the earth around the sun in its orbit, or the moon around the earth. Period of revolution is the time employed in passing from any point in its orbit around to the same point again.

Rotation is the motion of the different parts of a solid body about an axis, called the "axis of rotation" being thus distinguished from the progressive motion of a body about some distant point or center ; thus the diurnal motion of the earth is a motion of rotation, but its annual motion is one of *revolution*.

Evection is the most considerable of the lunar irregularities, caused by the action of the sun upon the moon. The lunar evection was discovered by Ptolemy, and was the first irregularity in the motion of the moon with which the ancients were acquainted. Its general and constant effect is to diminish the equation of the center in the syzygies, and to increase it in the quadrature, and may be explained by a change supposed to take place in the eccentricity of the lunar orbit, and at the same time a motion in apogee. If this diminution and augmentation were always the same, the evection would depend solely upon the angular distance of the moon from the sun, but its absolute value depends likewise upon the distance of the moon from the perigee of her orbit.

Libration is a term more particularly used to denote an apparent irregular libratory motion of a body about her own axis, whereby we see a little more than one-half of the lunar disc ; or, it is in consequence of our seeing more than one-half of it, that the moon appears to have such a motion. It is not real, but an appearance only.

Nutation is a kind of trepidation, or tremulous motion of the axis of the earth, whereby its inclination to the plane of the ecliptic is not always the same, but varies backward and forward some seconds ; and the period of this variation is nine years. The nutation was discovered by James Bradley, who published his account of it in 1737. It is said to be an obvious result of the Newtonian theory of attraction, as based upon Newton's laws. (See N. AND Q., Vol. II, p. 339.)

INITIAL LETTERS IN THE KORAN. (Vol. IV, p. 344.) What is the meaning of the several initials placed at the beginning of various chapters in the Korân, the sacred book of the Mohammedans :

A. L. M. ; A. L. M. S. ; A. L. R. ; A. L. M. R. ; C. H. Y. A. S. ; T. H. ; T. S. M. ; T. S. ; Y. S. ; H. M. A. S. K. ; H. M. ; K. ; and N. ?

SEARCHER.

There are about 39 chapters of the Korân that have this peculiarity, that they begin with certain letters of the alphabet, some with a single letter, others with more. These letters the Mohammedans believe to be the peculiar marks of the Korân, and to conceal several profound mysteries, the certain understanding of which, the more intelligent ones confess, has not been communicated to any mortal, their prophet only excepted. Notwithstanding this, some will take the liberty of guessing at their meaning by that species of Kabbalah called by the Jews, "Notaricon." They suppose the letters to stand for as many words expressing the names and attributes of God, his works, ordinances, and decrees ; and, therefore, these mysterious letters, as well as the verses themselves, seem, in the Korân, to be called signs. Others explain the intent of these letters from their nature or origin, or else from their value in numbers, according to another species of Jewish kabbalah called "Gematria" ; the uncertainty of these speculations sufficiently appear from their disagreement. Thus, for example, five chapters—one of which is the second,—begin with these letters, "A. L. M.," which some imagine to stand for *Allah Matif Magid*—"God is gracious and to be glorified" ; or *Ana Li Minni*—"to me and from me," *i. e.* belongs all perfection, and proceeds all good ; or, it may be for *Ana Alla Alam*—"I am the most wise God"—taking the first letter to mark the beginning of the first word, the second letter of the second word, for the second mark, and the third letter of the third word, for the third mark ; or, again, *Allah, Gabriel, Mohammed*—the author, the revealer, and the preacher of the Korân. Others still say as the letter A belongs to the lower part of the throat, the first of the organs of speech ; L, to the palate, the middle organ ; and M, to the lips, which are the last organs ; so these letters signify that God is the beginning, the middle, and the end, or ought to be praised in the beginning, the middle, and at the end of all our words, deeds, and actions ; or, as the total value of these three letters is seventy-one, they signify that in the space of seventy-one years, the religion

advocated in the Korân should be preached and established in as many years.

The conjecture of a learned gentleman, not a Mohammedan, is at least as certain as any of the former speculations ; he supposes the letters were set there by the amanuensis of the prophet, and stand for *Ali li Mohammed*,—"at the command of Mohammed." The five letters at the beginning of the 19th chapter, "C. H. Y. A. S.," some suppose to have been placed there by a Jewish scribe, and stand for *Cob yaas*—"thus he commanded." Hence we observe that it is entirely a subject of conjecture as to their meaning.

Next after the title at the head of every chapter, excepting the ninth, is prefixed what the Mohammedans call the *Bismillah* which is this formula—"In the name of the most merciful God." The Jews made use of this formula, in their books—"In the name of the LORD" (Jehovah). The eastern Christians adopted this formula—"In the Father, and of the Son, and of the Holy Ghost." The Persian Magi began their books with these words, "*Benâm Yazdâm bakhshâish-gher dâdâr*"—that is "In the name of the most merciful, just God."

THE ALLEGORY. (Vol. IV, p. 344.) Please translate the following couplet, found in a note on page 48 of Dr. G. D. Ginsburg's "Kabbalah" :

Littera gesta docet, quid credas Allegoria,
Moralla quid agas, quo tendas anagogia.

JONAS.

The above couplet translated in plain English would read :

"History teaches you what has been done ; allegory teaches you what to believe ; ethics, what to do ; anagoge, whether you tend."

M. F. K., Manchester, N. H.

FROM "EVANGELINE." (Vol. IV, p. 343.) "CURIOUS" will find that the last two lines of Part I, of Longfellow's *Evangeline* reads :

"And with the ebb of the tide the ships sailed out of the harbor,
Leaving behind them the dead on the shore, and the village in ruins."

This is, however, different from those lines quoted by "CURIOUS" :

"And with the turn of the tide the ships sailed out of the harbor,
And the shores of their beloved land grew misty in the distance."

P. M. C., Manchester, N. H.

FROM "POPE'S ESSAY ON MAN." (Vol. IV, p. 343.) "Pope's *Essay on Man*, First Epistle, lines 39 and 40, are :

"Ask of thy Mother Earth, why oaks were made
Taller or stronger than the weeds they shade."

P. M. C., Manchester, N. H.

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THE BIZARRE.

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NOTES QUERIES

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"Go on, and the Light will come to you." — *Jean D'Alembert.*

Vol. IV.

OCTOBER, 1887.

No. 10.

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MISCELLANEOUS

NOTES AND QUERIES,

WITH ANSWERS

"The tree that bears no fruit deserves no name." — EDWARD YONNG.

VOL. IV.

OCTOBER, 1887

No. 10.

The Omens of Sneezing.

A less morally questionable, though more inconvenient precept, is that you are never to blow your nose in the presence of any one!

The custom of saying "God bless you!" when a person sneezes, dates from Jacob. The Rabbis say that, before the time that Jacob lived, men sneezed once, and that was the end of them—the shock slew them; but the patriarch, by his intercession, obtained a relaxation of this law, subject to the condition that, in all nations, a sneeze should be consecrated by a sacred aspiration.

In the *Odyssey*, xvii. 54—57, we have, imitating the Hexameters, the following passage:

Thus Penelope spoke. Then quickly Telemachus sneez'd aloud,
Sounding around all the building; his mother with smiles at her son said,
Swiftly addressing her rapid and high-toned words to Eumæus,
"Go then, directly, Eumæus, and call to my presence the strange guest,
See'st thou not that my son, *ev'ry word I have spoken hath sneez'd at?*
Thus portentous, betokening the fate of my hateful suitors,
All whom death and destruction await by a doom irreversible."

Dionysius Halicarnassus, on Homer's poetry (s. 24), says, sneezing was considered by that poet as a good sign and from the *Anthology* (lib. ii.) the words show that it was proper to exclaim "God bless you!" when any one sneezed.

Aristotle, in the Problems (xxxiii. 7), inquires why sneezing is reckoned a God; to which he suggests that it may be because it comes from the head, the most divine part about us.

Athenæus, says Potter in his *Archæologia Græca*, proves that the head was esteemed holy, because it was customary to swear by it, and adore as holy the sneezes that proceeded from it. Persons having the inclination, but not the power to sneeze, should look at the sun, for reasons he assigns in Problems (xxxiii. 4).

Plutarch, on the Dæmon of Socrates (s. 11), states the opinion which some persons had formed, that Socrates' dæmon was nothing else than the sneezing either of himself or others. Thus, if any one sneezed at his right hand, either before or behind him, he pursued any step he had begun; but sneezing at his left hand caused him to desist from his formed purpose. He adds something as to different kinds of sneezing. To sneeze twice was usual in Aristotle's time but once, or more than twice, was uncommon (Problems xxxiii. 3).

Petronius (*Satyr.* c. 98) notices "blessings" in the following passage:

Giton collectione spiritus ter continuo lit sternutavit, ut grabatum concuteret. Ad quem motum Eumolpus conversus, *salvere Gitona jubet.*

Et n'esternuay point regardant le soleil.

And did not sneeze as he looked upon the sun.

Bonsard tom. v. p. 158, quoted in Southey's

Common Place Book, 2d series, p. 333.

Here, not to sneeze appears not to be looked upon as an ill omen.

Ammianus has an epigram upon one whose nose was so long that he never heard it sneeze, and therefore never said God bless you.—*Notes on the Variorum Plautus* (ed. Gronov., Lugd. Bat.), p. 720.

Erasmus, in his *Colloquies*, bids one say to him who sneezes, "Sit faustum ac felix," or "Servet te deus," or "Sit salutiferum," or "Bene vertat Deus."

Query whether from some such idea of the beneficial effect of sneezing, arose the practice of calling for the divine blessing on the sneezer.

When Themistocles was offering sacrifice, it happened that three beautiful captives were brought him, and at the same time the fire burnt clear and bright, and a sneeze happened on the right hand. Hereupon Euphrantides the soothsayer, embracing him, predicted the memorable victory which was afterwards obtained by him, &c.

Sneezing was not always a lucky omen, but varied according to the alteration of circumstances. "Some sneezes are profitable, others prejudicial"—according to the scholiast upon a passage of Theocritus, wherein he makes the sneezing of the Cupids to have been an unfortunate omen to a certain lover :

"If any person sneezed between midnight and the following noon-tide it was fortunate, but from noontide till midnight it was unfortunate.

If a man sneezed at a table while they were talking away, or if another happened to sneeze on his left hand, it was unlucky ; if on the right hand, fortunate.

If, in the undertaking any business, two or four sneezes happened, it was a lucky omen, and gave encouragement to proceed ; if more than four, the omen was neither good nor bad ; if one or three, it was unlucky, and dehorted them from proceeding in what they had designed. If two men were deliberating about any business, and both of them chanced to sneeze together, it was a prosperous omen."—*Archæol. Græc.* (5th ed.) pp. 339, 340.

Strada, in his *Prolusions*, Book III. Prol. 4, replies at some length, and not unamusingly, to the query, "Why are sneezers saluted?" It seems to have arisen out of an occurrence which had recently taken place at Rome, that a certain *Pistor Suburranus*, after having sneezed twenty-three times consecutively, had expired at the twenty-fourth sneeze : and his object is to prove that Sigonius was mistaken in supposing that the custom of saluting a sneezer had only dated from the days of Gregory the Great, when many had died of the plague in the act of sneezing. In opposition to this notion, he adduces passages from Apuleius and Petronius Arbiter, besides those from Ammiannus, Athenæus, Aristotle, and Homer, already quoted. He then proceeds to give five causes from which the custom may have sprung, and classifies them as religious, medical, facetious, poetical, and augural.

Under the first head, he argues that the salutation given to sneezers is not a mere expression of good wishes, but a kind of veneration ; "for," says he, "we rise to a person sneezing, and humbly uncover our heads, and deal reverently with him." In proof of this position, he tells us that in Ethiopia, when the Emperor sneezed, the salutations of his adoring gentlemen of the privy chamber were so loudly uttered as to be heard and re-echoed by the whole of his court ;

and thence repeated in the streets, so that the whole city was in simultaneous commotion.

The other heads are then pursued with considerable learning, and some humor; and, under the last, he refers us to St. Augustin, *De Doctr. Christ.* ii. 30, as recording that

"When the ancients were getting up in the morning, if they chanced to sneeze whilst putting on their shoes, they immediately went back to bed again, in order that they might get up more auspiciously, and escape the misfortunes which were likely to occur on that day."

It is a curious circumstance that if any one should sneeze in company in North Germany, those present will say, "Your good health;" in Vienna, gentlemen in a *café* will take off their hats, and say, "God be with you;" and in Ireland Paddy will say, "God bless your honor," or "Long life to your honor." In Italy and Spain similar expressions are used. The custom is also very common in Russia. The phrases the Russians use on these occasions are—"To your good health!" or "How do you do?" It is said that in Bengal the natives make a "salam" on these occasions. One of the salutations, by which a sneezer is greeted amongst the lower class of Romans at the present day is, *Figli maschi*, "May you have male children!"

The *Athenæum*, in a review of M. Nisard's curious though ill-executed work on the popular literature of France, remarks that the following passage contains evidence of the almost universal practice of salutation after sneezing:

"If you sneeze in the presence of another person, you should take off your hat, turn aside, put your hat, your handkerchief, hand, or napkin before him; and as soon as the paroxysm is past, you ought to salute those who have saluted, or ought to have saluted you, although they may have said nothing."

At different stages of social progress, such instructions may be found occupying positions in the social scale correspondingly various, and helping accordingly to mark the point reached by different nations. In France the above extract, at the middle of the nineteenth century, occupies a page in a chap-book destined for the classes at the bottom of the social pyramid. In Italy is found the following in a child's primer, issued authoritatively in 1553, and stated in the title-page to be "enriched with new and moral maxims adapted to form the hearts of children." Among "the duties of man to society" are enumerated those of

"Abstaining fro scratching your head, putting your fingers in your mouth, crossing one knee over the other in sitting . . . and being prompt in saluting any one who may sneeze, and returning thanks to any who, on such an occasion, may have wished you well."

It is a commonly current statement, that the practice in question had its origin at the time of a wide-spread epidemic, of which sneezing was supposed to be a prominent symptom.

Another of the maxims in the same little book, supposed by its author to be "adapted for the formation of the juvenile heart," is characteristic and noteworthy. "One ought never," it is taught, "to introduce any conversation on topics unseasonable or *contrary to current opinions.*"

MISQUOTATIONS FROM SCRIPTURE. "God tempers the wind to the shorn lamb." From Sterne's "Sentimental Journey to Italy." Compare Isaiah xxvii. 8.

"In the midst of life, we are in death." From the Burial Service; and this is originally from a hymn of Luther.

"Bread and wine, which the Lord had commanded to be received." From the English Catechism.

"Not to be wise above what is written." Not in Scripture.

"That the Spirit would go from heart to heart, as oil from vessel to vessel." Not in Scripture.

"The merciful man is merciful to his beast." The Scripture form is, "A righteous *man* regardeth the life of his beast." Prov. xii, 10.

"A nation shall be born in a day." In Isaiah it reads. "Shall a nation be born at once?" Isaiah LXVI, 8.

"As iron sharpeneth iron, so doth a man the countenance of his friend." "Iron sharpeneth iron: so a man sharpeneth the countenance of his friend." Prov. xxvii, 17.

"That he who runs may read." "That he may run that readeth." Hab. ii, 2.

"Owe no man anything but love." "Owe no man anything, but to love one another." Rom. xiii, 8.

"Prone to sin as the sparks fly upwards." "Born unto trouble as the sparks fly upwards." Job v, 7.

"Exalted to heaven in point of privilege." Not in the Bible.

Eve was not Adam's helpmate, but merely a helpmeet for him; nor was Absalom's long hair, of which he was so proud, the instrument of destruction; his head, and not the hair upon it, having been caught in he boughs of the tree. 2 Samuel xviii, 9.

Surnames were first adopted in the reign of Edward the Confessor.

ORIGINAL THINGS. The first house ever numbered in London was one abutting east of Northumberland House, Strand.

The first advertisements known of in England were in the shape of small bills affixed to the doors of St. Paul's church.

The first play bill issued from Drury Lane theater was on April 8, 1663, the piece represented being "The Humorous Lieutenant."

The first royal letter was written by Henry V. to the Bishop of Durham, February 10, 1418.

The first book containing musical characters was issued 1495 from the press of the celebrated "Wyuken de Worde."

The first record of a judge's salary gives £138.12s.4d as the stipend of Thomas Littleton, judge of the King's Bench, 1466.

The model of the first English steam vessel was laid before the Board of Admiralty in 1789.

The first Italian lady who sang in public in England was Francesca Margherita de l' Epine, who appeared in various operas in 1693.

The first bread was made by the Greeks, and the first windmills by the Saracens.

Turnpikes were originated in 1267, the sum of one penny having to be paid for each wagon passing through a certain manor.

The first Lord Mayor's show was in 1543, and Sir John Shaw was the first that held a feast in the Guildhall, 1501.

The Earl of Arundel (temp. Charles I.) was the first person who brought to England from Italy the new way of building with bricks.

The first idea of electricity was given by the friction of two globes of quicksilver, in the year 1647.

Linen was first made in England 1253, and only worn by the luxurious.

Books in their present form were first made by Attalus, King of Bergamus, in 837.

Carriages were first introduced into England in 1380, and were for a long time used only for the conveyance of the sick and of ladies.

The first English almanac was brought out in Trinity College, Cambridge, in 1347, and the first printed almanac appeared in London about a hundred years later.

The first English newspaper was the *English Mercury*, issued in the reign of Queen Elizabeth, and was in the shape of a pamphlet. The

Gazette of Venice, was the original model of the modern newspaper.

The first balloon was made by a Jesuit about 1620. The idea was revived in France by M. Montgolfier in 1783, and introduced in England the following year.

The first striking clock was imported into Europe by the Persians about the year A. D. 800. It was brought as a present to Charlemagne from Abdelia, King of Persia, by two monks of Jerusalem.

The first toll for the repair of English highways was imposed in the reign of Edward III., and was for repairing the road between St. Giles and Temple Bar.

The first record we have of coal is about 300 years before the christian era. Coal was used as fuel in England as early 852, and in 1234 the first charter to dig for it was granted by Henry III, to the inhabitants of Newcastle-on-Tyne.

The first glass window in England was one put up in an abbey about 680. Glass windows, however, did not become general for many hundred years, and as late as 1577 the glass casements on Ainsworth Castle, the Duke of Northumberland's seat, were regularly taken down when the family were away from home.

PRONOUNS AND NAMES.—IT DEAD AND HE MOURNING. Dr. A. J. Meuer performed an autopsy recently on the body of It, former companion of He and She. It died on Monday morning. The operation took place at Charles Reiche's store in Park row. It was found dead in its little bed by Nurse Sparrow. It had been far from well in England, but on arriving in America, the sea voyage, the change of climate, and its daily outing with Nurse Sparrow seemed to revive its spirits. It's death was not looked for, although Dr. Meuer had been called and was attending it professionally.

Dr. Meuer found that It's heart was ruptured, and that this was the immediate cause of death. The left lung was also almost entirely gone from the ravages of tubercular consumption, and the liver was congested and enlarged. Mr. Reiche sent the body of It with Dr. Meuer to a Third avenue undertaker yesterday. It's body is to be embalmed, and Mr. Reiche will keep it in a casket in the Park row store for some time.

He and It were inseperable, and since It's death, He cries and refuses to be comforted. He is, however, in good health. She died in London.

"GERRYMANDERING." With reference to the origin of this word, a correspondent of *The London Times* says: "In 1811 one Elbridge Gerry was Governor of Massachusetts. With a view to keeping their party in power, Mr. Gerry and his friends arranged a new division of the State into senatorial districts, so artfully carved and shaped that in as many of them as possible their opponents should be outnumbered. All natural and customary lines were set at naught, and some of the queerest conformations ever known in political geography were the result. Somebody seeing an outline map of one of these monstrous districts, added with his pencil a beak at one end and claws at the other. 'That will do for a salamander,' he said. 'Salamander!' cried a friend; 'I call it gerrymander.' The little mot made its fortune, and the word took its place in the political vocabulary. It has crossed the Atlantic, and we may expect often within the next year 'or more to hear that the thing, as well as the word, is crossing."

VARIATIONS OF SPELLING. The journals kept by members of Gen. Sullivan's Indian expedition of 1779 show very curious variations in the spelling of Indian names like Genesee, Seneca, and Cayuga. An Auburn gentleman has compiled a list follows:

Chenisee,	Sinnike,	Kaiyuga,
Canisee,	Sennikus,	Kieuga,
Chenesee,	Sinnekie,	Kayugea,
Genesee,		
Genessee,	Cinnakie,	Kaiyugea,
Chennesee,	Seneka,	Cauuga,
Chenesee,	Seneke,	Cuyga,
Chenese,	Sinica,	Kaugau,
Chinesee,		
Chinisee,	Ceneca,	Kihuga,
Chinicee,		Cauuga,
Chenasee,	Senica,	Keyuga,
Chenassee,		
Genese,	Senaca,	Keuga,
Jenise,		
Jeneise,	Sinaca,	Caiuga,
Ginnasee,	Cinnakee,	Kiyuga,
Ginnacee,	Cinnaka,	Kayuga,
Chineasira,		
Chiniasira,	Sinnike,	Keugo,
Junisie,		
Junisee,	Senaca,	Keuka,
Chinnessee.		

Songs of the War.

One of the most interesting articles in the appearing in the *Century* for August is from the pen of Brander Matthews, who gives the history of the most famous war songs. Of these songs Mr. Matthews thinks but two are finer than "Yankee Doodle" and the "Star Spangled Banner," and those are "John Brown's Body" and "Marching Through Georgia." Of the former the genesis of both words and music is obscure. Its conjectural construction of the story of the song is briefly this :

In 1856 William Steffe, of Philadelphia, was asked by a fire company in Charleston, S. C., to write an air to certain verses, the chorus of which began, "Say, brothers, will you meet us ? " In 1860 the same air was given to republican campaign songs.

When Fort Sumter was fired on the campaign songs, the camp-meeting songs, the street songs, among which was "Tell John Andrew John Brown's Dead," were fused, as it were, and "John Brown's Body" came into being. Mr. Matthews says this song was put together by a quartet of men in the Massachusetts Tigers, and the soldiers of the 12th Massachusetts regiment sang it as they marched down Broadway July 24, 1861. They sang it incessantly until 1862, and by that time the whole nation was familiar with it.

The most popular war song of the South was "My Maryland." Jas. R. Randall was its author. He was a native of Baltimore, but in April, 1861, was residing in New Orleans. From the papers of that city he read a highly-colored account of the attack on the Massachusetts troops while they were passing through Baltimore. He worked himself up into a fever of excitement, and then wrote the words. Afterward the verses were set to the music of "Laurigur Horatius," a favorite college song of a jovial character.

"Dixie" was another popular song. It was composed in 1859, according to Mr. Matthews, by Dan D. Emmett, as a "walk-around" for Bryant's minstrels. Emmett had traveled with circuses, had heard circus men speak of the country south of Mason and Dixon's line as Dixie, and had heard them wish themselves there as soon as Northern days became uncomfortably cold. "I wish I was in Dixie," they used to say, and it was upon this that Emmett founded his song. In the

fall of 1860 Mrs. John Wood sung "Dixie" in New Orleans in John Brougham's burlesque, *Pocahontas*." Southern words to suit the tune had been written by Gen. Albert Pike, and the air was also used by republican campaign singers at the North.

"The Bonnie Blue Flag" also came from the theater. The tune is an old Hibernian melody, according to Mr. Matthews, "The Irish Jaunting Car." The words were written by an Irish comedian, Harry McCarthy. "The Bonnie Blue Flag" became popular, but was not so much sung as was "Dixie" or "Lorena," the northern equivalent of "Just Before the Battle, Mother." The latter was composed, words and music, by Geo. F. Root of Chicago, who was also the author of "The Battle Cry of Freedom," and of "Tramp, Tramp, Tramp, the Boys Are Marching." All of Mr. Root's songs were immensely popular with the soldiers, but the first favorite was probably "The Battle Cry of Freedom."

Beyond a doubt the most popular war song at the North is "Marching Through Georgia." Probably Gen. Sherman has heard it a million times. He thinks he has, anyway, for the bands play it wherever he goes—pretty much as "Hail to the Chief" is played wherever the President shows his head. This was written by Henry C. Worth, who was fond of reflecting the rude negro rhythms and was familiar with the songs of the cotton fields and levee. Mr. Matthews says, however, that "Marching Through Georgia" was not founded on a negro air and he regards the tune as new and fresh and spirited "the chief musical legacy of the war."

"We Are Coming, Father Abraham, Three Hundred Thousand More" appeared originally in the *New York Evening Post*, and as the author's name was not given the public believed for a time that Wm. Cullen Bryant wrote it. But its author was Jno. S. Gibbons, a Quaker, who, so Mr. Matthews says, had a "reasonable leaning toward wrath in cases of emergency." The famous war song, "When Johnny Comes Marching Home," was written by P. S. Gilmore. Julia Ward Howe's "Battle Hymn of the Republic" was written, Mrs. Howe says, in the dim twilight of the early morning after a night given to thought of the subject, in which the lines were gradually worked out. The title was given to it by Jas. T. Fields of the *Atlantic Monthly*.

Questions and Answers.

HUME'S ARGUMENT *vs.* MIRACLES. What was Hume's argument against the restoration of a dead man to life? A. H. H.

Babbage's "Ninth Bridgewater Treatise" page 148 says :

"Let us now consider the miracle alluded to by Hume—the restoration of a dead man to life. According to the definition of that author, our belief that such a fact is contrary to the laws of nature, arises from our uniform experience against it. Our personal experience is small ; we must therefore have recourse to testimony ; and from that we learn, that the dead are *never* restored to life, and consequently, we have the uniform experience of all mankind since the creation, against one assigned instance of a dead man being so restored. Let us now find the numerical amount of this evidence. Assuming the origin of the human race to have been about six thousand years ago, and taking thirty years as the duration of a generation, we have—

6000

— = 200 generations.

30

And allowing that the average population of the earth has been a thousand millions, we find that there have been born and died since the creation,

$200 \times 1,000,000,000 = 200,000,000,000$ individuals.

Such, then, according to Hume, are the odds against the truth of the miracle: that is to say, it is found from experience, that it is about two hundred thousand millions to one against a dead man having been restored to life."

"THAT WILL DO TO TELL TO THE MARINES." (Vol. IV, p. 343.) What is the origin of the expression, "That will do to tell to the marines" ? B., Oakville, Penn.

I suppose the marines on shipboard are usually considered "fresh," artless, and easily deceived. Hence, sailors, when a "yarn" or story is related too stupid for their acceptance, signify their contempt for it, as suitable only to be told to the marines who will not refuse to believe any such absurdity. S. W.

THE XEROPHAGISTS. (Vol. IV, p. 344.) Who were the Xerophagists, and what were their principles and practices? LOWELL.

The Xerophagists were the early christians, who during certain fasts eat only dry food. Tertullian speaks of the practice. W.

A DEMOCRATIC AND REPUBLICAN GOVERNMENT. (Vol. IV, p. 343.)
What is a *Republican* government, and a *Democratic* government, as each italicized word means? V.

A *Democratic* government is exercised directly by the people in their primary capacity, as in the town-meetings of New England. A *Republican* government is the exercise of power by authority of the Commonwealth, but is in no specific form. Rome was a republic, alike when governed by the Patrician aristocracy, and afterward by Emperors. So, too, was Poland till her final dismemberment. A republic should be democratic to be genuinely free; but this is not imperative. Nor is democracy incompatible with oppressive and arbitrary administration. The American States constitute a united republic; but it is preposterous to call it a democracy. W.

Republic is from the Latin (*res publica*) the public good. Republican government is a government where the power is not lodged with a hereditary chief, but either with certain privileged members of the community or in the whole community. Therefore, a republic may vary from the most exclusive oligarchy to a pure democracy according to the constitution of the governing party.

Democratic is from the Greek, which signifies the rule of the people. In Greece, whence the name is derived, it was understood to mean a commonwealth, so constituted, that the power was exercised by the body of citizens (the *demos*) and not by an individual or by a dominant caste. Therefore, democracy stood opposed to both monarchy and aristocracy.

The speech of Abraham Lincoln on the battlefield of Gettysburg, Nov. 19, 1863, is the best illustration of a democratic government that I know, where he says, "That the nation shall have a new birth of freedom, and the government of the people by the people and for the people shall not perish from the earth."

P. M. C., Manchester, N. H.

THE HAYWARD. (Vol. VI, p. 344.) What are the duties of the Hayward, an officer appointed or elected by the municipal government in some of the New England cities? F. J. P.

A Hayward is an officer that is elected by the voters of a town or Parish at their regular town elections. A Hayward is often called Pound-keeper. His duties are to look after stray cattle, horses,

sheep, etc., that are found on the highways and secure them in a pen or pound as it is usually called, and from which the owner must remove them, first paying charges for feeding, watering and general care while under the protection of the town Hayward or Pound-keeper.

This is an ancient English custom, and the name Pound is generally accepted to have had its origin from the fact that the owner was obliged to pay 1 £ sterling before he could remove his cattle, hence the name Pound for Pen, and Pound-keeper for Pen-keeper.

"ARGOS-EYED, HYDRA-HEADED, JANUS-FACED. (Vol. IV. p. 343.) Give some information of the origin and use of the following words: Argos-eyed, Hydra-headed, Janus-faced, etc. JONATHAN.

Argos-eyed jealousy, watchful. According to the Grecian fable, Argos had 100 eyes, and Juno set him to watch all of whom she was jealous. Argos being slain, she transplanted his eyes into the tail of her peacock.

Hydra headed. Having as many heads as the hydra, a difficulty that increases as it is combated.

This word is derived from the fable of Hercules and the Hydra. The Hydra was a monster of the Lorne and marshes in Argolis. It had nine heads and Hercules was sent to kill it. As soon as he struck off one of its heads, two shot up in its place.

Janus-faced. Not always the same (to use the vulgar expression, one thing to your face another to your back). It is from Janus a temple in Rome. The doors were always thrown open in times of peace, and closed in times of war. Slavery was the hinge on which the gates of the temple of Janus turned in the American war, says the *London Times*. P. M. C., Manchester, N. H.

DARWINISM OR DARWINIANISM? ZORASTERISM OR ZORASTERIANISM? (Vol. IV, p. 344.) Which is the more correct mode to express the *ism* in proper nouns? J. J. J.

It is possibly more correct to write *Darwinianism*, *Zoroastrianism*, etc., but usages permits the elimination of the abjective syllables. We accordingly say *symbolology* for *symbol-ology*, *idolatry* for *idol-olatri*, etc.; and the French write *Eclectism* for *Eclecti-cism*. The current sets in for shorter spellings, and doubtless this is the better way. I don't approve of the phonetic savageries, but a radical reform should be established in orthography and pronunciation, and all people using the Roman alphabet should participate in it. A. WILDER.

AFFINITY AND CONSANGUINITY. What are the laws of affinity and consanguinity?
G. S. CLARK.

Consanguinity, alliance by blood, as *affinity* is alliance by marriage. Certain degrees of consanguinity are among the impediments to marriage, both by the law of nature and the scriptural record. These degrees as defined by the Church of England, are expressed in a table drawn up by archbishop Parker in 1563, and set forth by authority. This table is as follows:

A Table of Kindred and Affinity, wherein whosoever are related are forbidden in Scripture and our Laws to marry together.

A man may not marry his

- 1 Grandmother,
- 2 Grandfather's Wife,
- 3 Wife's Grandmother,
- 4 Father's Sister,
- 5 Mother's Sister,
- 6 Father's Brother's Wife,
- 7 Mother's Brother's Wife,
- 8 Wife's Father's Sister,
- 9 Wife's Mother's Sister.
- 10 Mother,
- 11 Step-mother,
- 12 Wife's Mother,
- 13 Daughter,
- 14 Wife's Daughter,
- 15 Son's Wife,
- 16 Sister,
- 17 Wife's Sister,
- 18 Brother's Wife,
- 19 Son's Daughter,
- 20 Daughter's Daughter,
- 21 Son's Son's Wife,
- 22 Daughter's Son's Wife,
- 23 Wife's Son's Daughter,
- 24 Wife's Daughter's Daughter,
- 25 Brother's Daughter,
- 26 Sister's Daughter,
- 27 Brother's Son's Wife,
- 28 Sister's Son's Wife,
- 29 Wife's Brother's Daughter,
- 30 Wife's Sister's Daughter.

A woman may not marry with her

- 1 Grandfather,
- 2 Grandmother's Husband,
- 3 Husband's Grandfather,
- 4 Father's Brother,
- 5 Mother's Brother,
- 6 Father's Sister's Husband,
- 7 Mother's Sister's Husband,
- 8 Husband's Father's Brother,
- 9 Husband's Mother's Brother,
- 10 Father,
- 11 Step-father,
- 12 Husband's Father,
- 13 Son,
- 14 Husband's Son,
- 15 Daughter's Husband,
- 16 Brother,
- 17 Husband's Brother,
- 18 Sister's Husband,
- 19 Son's Son,
- 20 Daughter's Son,
- 21 Son's Daughter's Husband,
- 22 Daughter's Daughter's Husband
- 23 Husband's Son's Son,
- 24 Husband's Daughter's Son,
- 25 Brother's Son,
- 26 Sister's Son,
- 27 Brother's Daughter's Husband,
- 28 Sister's Daughter's Husband,
- 29 Husband's Brother's Son,
- 30 Husband's Sister's Son."

QUESTIONS.

1. Why was Richard Saunders (Benjamin Franklin's pseudonym) called *Poor Richard*? WALDO.
2. Did the sun ever rise in the West and set in the East as some claim, and is there any work on the question? WALDO.
3. Who was called the "Queen of Tears?" D. M. DRURY.
4. Why is "Pigeon English" so called? D. M. DRURY.
5. Why is the expression "To show the white feather," used to show cowardice? D. M. DRURY.
6. Whence the expression "Penny wise and pound foolish." D. M. DRURY.
7. Give the real difference, if any, between the meaning of Sailor, Seamen, Marine, Mariner, Old Tar. CHAS. H. BURNETT.
8. Who were the fifty-four Argonauts? MILTON E. BOND.
9. Where is the "nether world" mentioned by Milton in *Paradise Lost*? MILTON E. BOND.
10. Why was Thomas à Kempis called *Malleolus*, or "little mallet?" THOS. M. JONES.
11. Where can a copy of the book be found entitled "Pilgrim's Progress in Phrenology" by Uncle Toby, New London, 1836? H. C. B.
12. What is the "Wheel of Birth" so frequently mentioned in the works of Jacob Boehme? G. S. CLARK.
13. Why do not people say golden chain, golden dollar, as they say "golden rule," "golden number," &c., instead of gold dollar, gold chain, &c.? G. S. CLARK.
14. What is the difference, if any, between the principles and objects of the *Rosicrucians*, and the Princes of Rose Croix—the 18th Degree of the Ancient and Accepted Scottish Rite? G. S. CLARK.
15. Who were Hugh de Payens, Jacques de Molay, Cœur de Lion from whom Masonic bodies are named? CRAFTSMAN.
16. What is the *Brachystochrone*, from which it is proved that the quickest time between two points is a curve rather than a straight line? INVESTIGATOR.
17. Required the origin, nationality, and meaning of the name Williams. What is it from in French? Also the name Sawyer? J. W.

1. Can you give me the authority for the following? "The first blackboard ever used for purposes of instructions was made by Col. Claudius Crozet, one of Napoleon's officers from Wagram to Waterloo, and afterwards teacher of mathematics at West Point about 1816." I do not recall from what I copied this. Can you tell me if it is correct?

H. A. Wood.

2. I sent you some time since 63 amicable numbers for publication which I thought might bring out some comments. Davies & Peck in their Mathematical Dictionary say that but four such pairs are known, and Hutton in his Recreations says: "If perfect numbers are rare amicable numbers are much more so."

I have verified several of those numbers sent you which you printed and as far as I have tried find them correct, and if they are *all* correct, how is it that Hutton, Davies & Peck, &c. have made such an error? Perhaps, as is often the case, they took the statement without investigation. Can any one give me light on the subject?

H. A. Wood.

3. Who is the author of, and where found, the following:

"Ye swans of Strymon, in loud notes complain,
Pensive, yet sweet, and droop the sickly wing,
And when your own sad elegy ye sing."

A. E. G.

4. Give name of author, and poem, from whom was taken the following lines found in the preface to the "Divine Pyramider" by Hermes Trismegistus—the P. B. Randolph edition.

"The path by which to Deity we climb
Is arduous, rough, ineffable, sublime:
And the strong, massy gates through which we pass,
In our first course, are bound with chains of brass.
Those men the first, who, of Egyptian birth,
Drank the fair waters of Nilotic earth,
Disclosed by actions infinite the road,
And many paths to God, Phenicia showed;
This road the Assyrian pointed out to view,
And this the Lydian and the Chaldean knew."

A. E. G.

5. Three boats are situated equi-distant from the shore. The first has one rope attached to it, while the other end of the rope is in the hands of a man on shore. Another rope is in the hands of a man in the boat, while the other end is fastened to a post on shore.

The second boat has a rope in the hands of a man in the [boat, while the other end is attached to a post on shore.

The third boat has a rope, one end of which is in the hands of a man in the boat, the other end being in the hands of a man on shore.

All the men named are supposed to be of equal strength, and to exert equal power to bring the boats to shore. What will be the relative time of their reaching it?

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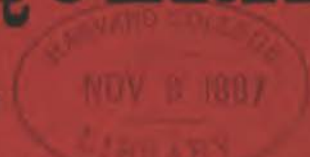
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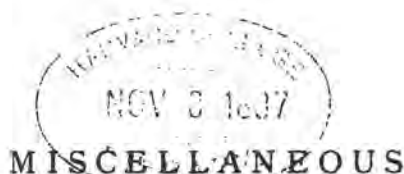
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MISCELLANEOUS

NOTES AND QUERIES,

WITH ANSWERS

"Humanity is but a man who lives perpetually and learns continually."

—PASCAL.

VOL. IV.

NOVEMBER, 1887

No. 11.

QUESTIONS AND ANSWERS.

DOUBLE CONSCIOUSNESS. What is double consciousness, and can you give an authentic case? J. J. J.

The memory, so far, from being one distinct organ, is the activity of all the faculties, which activity is resolvable into two or more distinct states of consciousness. The double consciousness is recognized by Dr. Moore, in his "Power of the Soul over the Body." He cites a few cases from Pritchard, Abercrombie, and others. A lady was liable to attacks of delirium, which often commenced in the midst of an interesting conversation, which she resumed, as if no interval had occurred, immediately on recovering. During any paroxysm, also, she would pursue the train of ideas that had occupied her formerly, thus manifesting the activity of two memories. A poor girl acquired the art of reading and writing during a fit of insanity, and, having intervals of reason, it was soon discovered that she could only exercise these powers in the insane state. The following instance, abbreviated from the account of Dr. Abercrombie, is most interesting:

"A girl, seven years of age, employed in tending cattle, was accustomed to sleep in an apartment next to one which was frequently occupied by an itinerant fiddler, who was a musician of considerable skill, and who often spent a part of the night in performing pieces of

a refined description. These performances were noticed by the child only as disagreeable noises. After residing in this house for six months she fell into bad health, and was removed by a benevolent lady to her own home, where, on recovery, she was employed as a servant. Some years after she came to reside with this lady the wonder of the family was strongly excited by hearing the most beautiful music during the night especially as they spent many waking hours in vain endeavors to discover the invisible minstrel. At length the sound was traced to the sleeping-room of the girl, who was fast asleep, but uttering from her lips sounds exactly resembling those of a small violin. On further observation, it was found that after being about two hours in bed she became restless, and begun to mutter to herself; she then uttered tones precisely like the tuning of a violin, and at length, after some prelude, dashed off into some elaborate pieces of music, in which she performed in a clear and accurate manner, and with a sound not to be distinguished from the most delicate modulations of that instrument. During the performance she sometimes stopped, imitating the re-tuning her instrument, and then began exactly where she had stopped, in the most correct manner. These paroxysms occurred at irregular intervals, varying from fourteen or even twenty nights, and they were generally followed by a degree of fever. After a year or two her music was not confined to the imitation of the violin, but was often exchanged for that of a piano, which she was accustomed to hear in the house in which she now lived; and she then also began to sing, imitating exactly the voices of several of the family. In another year from this time she began to talk much in her sleep, in which she seemed to fancy herself instructing a younger companion. She often descanted, with the utmost fluency and correctness, on a great variety of topics, both political and religious, the news of the days, the historical parts of Scripture, of public characters, of members of the family, and of their visitors. In these discussions she showed the most wonderful discrimination, often combined with sarcasm, and astonishing powers of memory. Her language through the whole was fluent and correct, and her illustrations often forcible, and even eloquent. She was fond of illustrating her subjects by what she called a fable, in these her imagery was both appropriate and elegant. She was by no means limited in her range. Buonaparte, Wellington, Blucher, and all the kings of the earth, figured among the phantasmagoria of her brain, and all were animadverted upon with such freedom from restraint, as often made me think poor Nancy had been transported into Madame Venlis's 'Palace of Truth.' She has been known to conjugate correctly Latin verbs, which she had probably heard in the school-room of the family, and she was once heard to speak several sentences correctly in French, at the same time stating that she heard them from a foreign gentleman but could not repeat a word of what he said. During her

paroxysms it was almost impossible to awake her, and when her eyelids were raised, and a candle brought near her eye, the pupil seemed insensible to the light.—(Ch. x., pp. 220-223.) Corroborative facts may be found in most works which treat of mental philosophy or physiology connected with mental states."

MAN-IN-THE-MOON. Why is the man in the moon generally depicted with a bundle of fagots on his back? ALICE E. LOWE.

The story as told by nurses is, that this man was found by Moses gathering sticks on a Sabbath, and that, for this crime, he was doomed to reside in the moon till the end of all things; and they refer to Numbers xv. 23-36 :

"And while the children of Israel were in the wilderness, they found a man that gathered sticks upon the Sabbath day. And they that found him gathering sticks brought him unto Moses and Aaron and unto all the congregation. And they put him in ward, because it was not declared what should be done to him. And the Lord said unto Moses, The man shall be surely put to death; all the congregation shall stone him with stones without the camp. And all the congregation brought him without the camp, and stoned him with stones till he died."

Of course, in the sacred writings there is no allusion to the moon. The German tale is as follows :

Ages ago there went one Sunday morning an old man into the wood to hew sticks. He cut a fagot and slung it on a stout staff, cast it over his shoulder, and began to trudge home with his burden. On his way he met a handsome man in Sunday suit, walking toward the Church; this man stopped and asked the fagot-bearer, "Do you know that this is Sunday on earth, when all must rest from their labors?"

"Sunday on earth, or Monday in heaven, it is all one to me!" laughed the wood-cutter.

"Then bear your bundle forever," answered the stranger; "and as you value not Sunday on earth, yours shall be a perpetual Moon-day in heaven; and you shall stand for eternity in the moon, a warning to all Sabbath-breakers." Thereupon the stranger vanished, and the man was caught up with his staff and his fagots into the moon, where he stands yet."

THAT "FALLACY," (Vol. 3, p. 262.) I am hardly able to understand how "A. L. F." discovered that I think my view of "The Fallacy" is the only correct one and that "all other interpretations are

wrong." I believe I have not yet given my view, and I have only said that *one* interpretation is wrong and not that all except mine are wrong. "A. L. F." must have guessed that, and he has guessed exactly right. I believe it is generally true in mathematical questions that one way is *right* and "*all the other ways wrong*," and I should certainly think myself very unwise to adopt any one of the wrong ways. Will "A. L. F." do us the favor to name the algebra in which $\sqrt{-1} \times \sqrt{-1} = \pm 1$ "is an *acknowledged principle*?" I understand "A. L. F." to affirm that the truth of this equation is among the "acknowledge principles of algebra" and there can be no answer to such an affirmative except to deny it, and it devolves, as I think, on "A. L. F." to cite some good authority for his statement. I have never seen any and never expect to. I have been taught that any algebraic expression whatever, under the radical sign or exponent, $\frac{1}{2}$, was raised to the second power by removing the radical sign or the exponent, $\frac{1}{2}$, without any other change. What writer or algebra says otherwise?

E. T. Q.

"E. T. Q." seems to be at a loss to understand how I discovered that he thought his view of the "Fallacy" to be the only correct one. In reply, I would refer him to Vol. IV, p. 262, "*Bazarre*," where he says, "*the clearing of fractions as I gave it, is perfectly right, and any other method is wrong*." Now if this does not mean what I have construed it to mean, I can only apologize for misinterpreting the meaning of what I took to be a perfectly plain English sentence. He asks me to cite authority for $\sqrt{-1} \times \sqrt{-1} = \pm 1$. I would refer the gentleman to Hackley's Algebra, p. 119. I am aware that most writers on algebra conclude after arriving at the expression $+1$ by saying -1 is the true value. But in the case in question the expression

is in the form of an *equation* and either $\frac{\sqrt{1}}{\sqrt{-1}} = \frac{\sqrt{-1}}{\sqrt{1}}$ or the equation

involves an absurdity and the members do not equal each other. Now if these expressions are equal, their squares will also be equal or

$\frac{1}{-1} = \frac{-1}{1}$ clearing of denominators we have $1 \times 1 = -1 \times -1$ or $1=1$, showing that the expressions are identically the same. Now, I claim that every step in the above is mathematically correct and challenge 'E. T. Q.' to disprove it.

A. L. F.

THE PLEIADES. What are the *Pleiades* and why so called?

The Pleiades, according to fable, were seven daughters of Atlas and the nymph Pleone, who were turned into stars, with their sister Hyades on account of their amiable virtues and mutual affections.

Dr. Hutton is of the opinion that Atlas, being the first astronomer who discovered these stars, called them by the names of the daughters of his wife Pleone.

Thus we every where find that the ancients with all their barbarous idolatry, entertained the belief that unblemished virtue and a meritorious life would meet their reward in the sky. Thus Virgil represents Magnus Apollo as bending from the sky to address the youth Iulus:

"Macte nova virtus puer; sic itur ad astra;
Dile genita, et geniture Deos."

"Go on, spotless boy, in the paths of virtue; it is the way to the stars; offspring of the gods thyself—so shalt thou become the father of gods."

Our disgust at their superstitions may be in some measure mitigated, by seriously reflecting, that had some of these personages lived in our day, they had been ornaments in the Christian churches, and models of social virtue.

The names of the Pleiades are Alcyone, Merope, Maia, Electra, Tayeta, Asterope, and Celæno. Merope was the only one who married a mortal, and on that account her star is dim among her sisters.

Although but six of these are visible to the naked eye, yet Dr. Hook informs us that, with a twelve feet telescope, he saw 78 stars; and Rheita affirms that he counted 200 stars in this small cluster.

The most ancient authors, such as Homer, Attalus, and Geminus, counted only six Pleiades; but Simonides, Varro, Pliny, Aratus, Hipparchus, and Ptolemy, reckon them seven in number; and it was asserted, that the seventh had been seen before the burning of Troy; but this difference might arise from the difference in distinguishing them with the naked eye.

The Pleiades are so called from the Greek word, *pleein*, to sail, because at this season of the year, they were considered "the stars of the ocean" to the benighted mariner. *Alcyone*, of the 3rd magnitude, being the brightest star in this cluster, is sometimes called the *light of the Pleiades*. The other five are principally of the 4th and 5th magnitudes.

The Pleiades, or as they are more familiarly termed, the *seven stars*, come to the meridian 10 minutes before 9 o'clock, on the evening of the first of January, and may serve in place of the sun, to indicate the time, and as a guide to the surrounding stars.

According to Hesiod, who wrote about 900 years before the birth of our Saviour, the hellacious rising of the Pleiades took place on the 11th of May, about the time of harvest.

"When, Atlas-born, the Pleiad stars arise
Before the sun above the dawning skies,
'Tis time to reap; and when they sink below
The morn-illum'd west, 'tis time to sow."

ARCHIPELAGO. What is the geographical meaning of *Archipelago*, and is the term applied to more than one location? J. J. J.

Webster gives the word as specifically and originally, the sea which

separates Greece from Asia Minor, otherwise called the *Ægean Sea*, which is studded with a vast number of small islands; in a general sense, any body of water interspersed with many isles, or a group of island.

The word is derived from the Greek *arche*, the first or beginning, *i. e.* ancient, and *pelagos*, the sea, *i. e.* the ancient sea. From *pelagos* comes Pelasgi—the name of the first inhabitants of the country to the north of Greece. The Greeks themselves claim to have come from Aucthodons—earth-born.

DEBATES OF LINCOLN AND DOUGLAS. (Vol. 4, p. 343.) Where were the seven debates between Lincoln and Douglas enacted?

ANXIOUS.

1st	Debate	Ottawa, La Salle county, Ill.,	Aug. 21, 1858.
2d	"	Freeport, Stephenson county, Ill.,	Aug. 27, "
3d	"	Jonesboro', Union "	Sept. 15, "
4th	"	Charleston, Coles "	" 18, "
5th	"	Galesburg, Knox "	Oct. 7, "
6th	"	Quincy, Adams "	" 13, "
7th	"	Alton, Madison "	" 15, "

P. M. C., Manchester, N. H.

THE ARGONAUTS. (Vol. IV, p. 395.) Who were the fifty-four Argonauts?

MILTON E. BOND.

Argonautæ a name given to those ancient heroes who accompanied Jason in his expedition on board the ship *Argo* to Colchis, about 79 years before the taking of Troy, or 1263. B. C. When Jason, the son of *Æson*, demanded of his uncle *Pelias* the crown which he had obtained by usurpation, *Pelias* declared that he would immediately restore it to him, provided he would avenge the death of their common relative *Phryxus*, whom *Æetes* had basely murdered in Colchis. Jason, who was in the vigor of his youth, and of an ambitious disposition, cheerfully undertook the expedition, and embarked with all the young princes of Greece in the ship *Argo*. This famous expedition was, on account of its importance, and the dangers which attended it, much celebrated in the ancient ages of the world. The following list numbering 85, is drawn from the various authors who have made mention of the Argonautic expedition. Authors vary as to their num-

ber. Jason, son of Æson, as is well-known, was the chief of the expedition to Colchis in search of the "Golden Fleece."

Acastus son of Pelias,	Glaucus,
Actor son of Hippasus,	Hercules son of Jupiter,
Admetus son of Pheres,	Idas son of Aphareus,
Æsculapius son of Apollo,	Ialmenus son of Mars,
Ætalides son of Mercury,	Idmon son of Abas,
Almenus son of Mars,	Iolaus son of Iphiclus,
Amphiaras son of Æclues,	Iphiclus son of Thestius,
Amphidamus son of Aleus,	Iphiclus son of Phycus,
Amphion son of Hyperasius,	Iphis son of Alector,
Anceus son of Lycurgus,	Lynceus son of Aphareus,
(and another of the same name,)	Iritus son of Naubolus,
Areus,	Laertes son of Arcesius,
Argus, builder of the ship Argo,	Laocoon,
Argus son of Phryxus,	Leodatus son of Bias,
Armenus,	Leitus son of Alector,
Ascalaphus son of Mars,	Meleager son of Ceneus,
Asterion son of Cometes,	Mencetius son of Actor,
Asterius son of Neleus,	Mopsus son of Amphycus,
Augeas son of Sol,	Nauplius son of Neptune,
Atalanta daughter of Schœneus,	Neleus the brother of Pelias,
(disguised in male attire,)	Nestor son of Neleus,
Autolycus son of Mercury,	Oileus, the father of Ajax,
Azorus,	Orpheus son of Cæger,
Bushagus,	Palemon son of Ætolus,
Butes son of Teleon,	Peleus and Talamon sons of Æacus,
Calais son of Boreas,	Periclymenes son of Neleus,
Canthus son of Abas,	Peneleus son of Hipalmus,
Castor son of Jupiter,	Philoctetes son of Pœan,
Ceneus son of Elatus,	Philas,
Cepheus son of Aleus,	Pollux son of Jupiter,
Cius,	Polyphemus son of Elates,
Clytius and Iphitus, sons of Eurythus,	Pœas son of Thaumacus,
Coronus,	Phanus son of Bacchus,
Deucalion son of Minos,	Phalerus son of Alcon,
Echion son of Mercury,	Phocas and Prias sons of Ceneus,
Ergynus son of Neptune,	(one of the Lapithæ,)
Euphenrus son of Neptune	Talaus,
Eribotes,	Tiphys son of Aginus,
Euryaleus son of Cisteus,	Staphilus son of Bacchus,
Eurydamas and Eurythion sons of	Two of the name of Iphitus,
Iras,	Theseus son of Ægeus,
Eurytus son of Mercury,	(with his friend Pirithous.

Æsculapius was the physician, and *Tiphys* the pilot of the expedition.

The word argonaut has also been applied to many who migrated to California when the modern "golden fleece" was discovered in that State; while those who went there in 1849 received the name of "forty-niners."

"NATURE FORMED BUT ONE SUCH MAN," ETC. (Vol. I, p. 11; III, p. 43.) Who said on the death of a contemporary, "Nature formed but one such man and broke the die"? B. U. R.

(Vol. I, p. 28.)

"Sighing that Nature formed but one such man,
And broke the die in moulding Sheridan."

Byron's Monody to Sheridan.

J. H. DRUMMOND, Portland, Me.

Isn't it *more probable* that Byron derived this idea from Rousseau's *Confessions*: "I at least claim originality, and whether Nature did wisely in breaking the mould with which she formed me, can only be determined after reading this work." It is well known that the French author was a great favorite with the English poet.

ALBERT P. SOUTHWICK.

GOLDEN WEDGE OF OPHIR. (Vol. III, p. 254.) What is the explanation of "the golden wedge of Ophir," in Isaiah XIII, 13; Joshua VII, 7, 24? X. Y. Z.

In this place, the original has no word which can be, or ever was translated "Wedge." But, I presume, that King James' translators were guided, (respectively misguided,) by their rendering "*Wedge of Gold*," in Joshua VII, 21, 24, for the original Hebrew "*tongue of gold*." And I further presume, that the original words in Joshua have their origin in the wedge-shaped, or tongue-shaped piece of gold which was cut out from the talent of gold, which word "*talent*," in Hebrew *CkiCkaR*, denotes some thing round. But in Isaiah the word, which the English translators rendered "Wedge," "*CkeTkeM*," may denote in general "a thing treasured up," and hence "gold" in a figurative sense. This word occurs nine times in the Hebrew Old Testament, in which "*gold*" suits well in the context. It occurs in the same combination as in Isaiah, viz: "*CkeTkeM Aou VFIR*," also in Job XXVIII, 19, where the Engl. Com. Ver. has it "gold of Ophir," and in Ps. XLV, 10 (Hebrew text, Engl. Com. V. XLX, 9), the same.

E. M. EPSTEIN, M. D.

HERMES "TRISMEGISTUS." Why was Hermes — author of the *Divine Pymander* — called Hermes "Trismegistus?" LOGOS.

The term Trismegistus appears for the first time, in the second century of the Christian era. Before that time, Hermes was designated by the repetition of the words, *megas, megas, megas*, only. He is called thus on the Rosetta Stone. He was considered to be the impersonation of the religion, art, learning, and priesthood of the Egyptians. Hence he was philosopher, priest, and king, and an authoritative interpreter of divine things—and called Hermes, "Thrice greatest." *Pymander* or *Poemandres* means "Shepherd-man" or "Flock-man."

"ARGOS-EYED, HYDRA-HEADED, JANUS-FACED. (Vol. IV. p. 343.) Give some information of the origin and use of the following words: Argos-eyed, Hydra-headed, Janus-faced, etc. JONATHAN.

The terms *Argus*, *Hydra*, and *Janus*, was borrowed from Roman and Hellenic mythology. Janus was a Hetruirian divinity, the *pris-cus*, or most ancient, and was represented with two faces. The Hydra was the archaic Bacchic serpent-symbol of Lerne, of the same category with the fire-breathing Dragon of Kolchis, the Dragon of the Hesperides, the Lion of Nemaia, etc., and like the Fiery Serpent of Akkad and the Indian Nagas, was depicted with many heads. Argus, appears to have been a personation of the Hindu god Indra. Both words have the same meaning, and each is represented with innumerable eyes. There is a phallic meaning to this symbol, which is not necessary here to explain. "Argus-eyed" means by implication incessantly watchful; "Hydra-headed," having innumerable shapes; and "Janus-faced," equivocating, double-dealing, treacherous.

A. WILDER.

"YPSILANTI." (Vol. III, p. 188.) What is the origin of the name of the town in Michigan called Ypsilanti? ORTHO.

The name "Ypsilanti" is undoubtedly derived from the Greek erratic family of that name, the first of whom was Constantine Ypsilanti who was born in Constantinople in 1760. He obtained high official rank on account of the translation of works of Vauban under the Sultan Selim III; but forsook his native land and became an adopted citizen of Russia, and after a turbulent life died in Kiev in 1816. He had three sons, Alexander, Demetrius, and Nicolas, whose lives all resembled that of their father in many particulars.

M. O. WAGGONER, Toledo, Ohio.

"YPSILANTI." This odd-looking word, which answers the purpose of a name to a flourishing town in Michigan, appears to be a terrible stumbling block to some of those who have occasion to correspond with that place. Mr. Cargill, distribution clerk in the Detroit post-office, made the following collection of the various distortions to which the name has been subjected in the superscription of letters to Ypsilanti :

Epsolany,	Upsylanti,	Yplantice,	Ipsalantia,
Ipsillanti,	IPseylunty,	Apsilanta,	Yeplanipha,
Ypseylantia,	Hypsilanteau,	Epcilante,	Yipshulanty,
Ipsylanta,	Ipsileindi,	Clypsalanta,	Ypt-zy-lunta,
Upslantei,	Hipsalantie,	Hipslyanty,	Hypsenti,
Yplanthropi,	Epcilanti,	Hypsilantheu,	ipsalantie,
ABsa Lanty,	Epcilantia,	E Ypcaluntia,	Ypslnaty,
Ippes Landing,	Ypssyllanti,	Yulomtice,	ieplantice,
ipsloty,	Ippslyantia,	Wipsilanti,	I bselandie,
Eyspialanta,	Hypisalianty,	Wyphsorlanter,	Yps-i-Landtine,
Eplonsay,	eypsillianty,	Iepcilunta,	I ppslanty,
E Y pislantia,	Ipcelandie,	I bseland,	Ypisylvania,
Upcliontia,	Eybsylandy,	Iipsalinta,	Ebsalanda,
I Pis-lanta,	Eipsly Lanty,	Ipsciluntun,	Whipcalentia.
Gyselantio,	Cypsslante,	Iscpylantia,	W Y P slanty,
Ipsolanty,	Lipslantie,	I bseliny,	Ippssalantia.

THE MAMMOTH CAVE. Vol. III, p. 64.) The statement relating to the Mammoth Cave in the Notes and Queries for April are misleading. In fact, I have never seen a description of the cave that did not give very erroneous impressions. All talk about "*chambers*" is wrong. There is nothing like separate rooms or "*chambers*" in the cave. It is simply a "*a hole in the ground*" varying size and shape, but not in such a way as to simulate separate rooms at all. In this respect, I was very much disappointed on visiting the cave several years ago in not finding it divided up into "*rooms*" or "*chambers*" according to the usual descriptions. It is evident by the track of an underground river long since dry, except at certain points, and having its branches or tributaries like any surface river with the modification that these tributaries sometimes come in from above making one cave above another.

E. L. Q.

"MIDRASH." Is the Hebrew word "*Midrash*," in 2 Chronicles XIII, 22, rightly rendered with "*story*," as in the Engl. Com. Ver.?

S. C. G.

It is not. Nor is the same word, in the same version, in the same

book, xxiv, 27. The Hebrew word is a participial adjective used as a noun. The verb root is "*DoRoalh*," and means "*to investigate*," and its derivative, as above, would mean in English "*investigating*," or as a noun, "*investigation*." From the context in 2d Chronicles, we must consider the word as denoting "*an Historical Investigation*." In this sense, the marginal reading of the Engl. Com. Ver. "*Comentary*," is correct, when taken in the sense of Cæsar's "*commentaries*," which means "*C's Memoirs*." The Hebrew word, moreover, signifies, that research was had, before the "*Midrash*" was put in writing.

E. M. EPSTEIN, M. D.

MALACHI. (a) Does the Hebrew word, "*MaLACHi*" in Malachi i, 1, mean "My Angel?" (b) Should the same word, in iii, 1, be rendered "Behold, I will send *MaLACHi*" &c., &c.? S. C. G.

(a) It does. If, however, we render it thus, there will be a logical incongruity between the *first person* in the possessive pronoun here, and the *third person* implied in the words: "The burden of the word of Jehovah to Israel." The Septuagint translates, therefore, "by the hand of *His* angel." There is no need of assuming that the Septuagint had a different text of the Hebrew, than the one at our hands. The Septuagint is not a faithful translation, but a paraphrase, often embodying current traditional notions.

(b) It may, but not should. In Hebrew usage, there would have to be the particle "*AcTh*," before "*MaLACHi*," in order to make it the objective case, if the word be a proper name. Compare the same book iii, 23, in the Hebrew text, (iv, 5, Engl. Com. Ver.): "Behold I am sending unto you the (*=AcTh*) *AcLiGoH* (*=Elijah*), the prophet." If the word be rendered "My Angel," then that particle is of no special need.

In this connection, though not relevant, let me say, that I consider the usual derivation of the word "*MaLaOCh*," from an Arabic word "*LoAch*," which means, "to send," as inadequate, and rather misleading in the translation, "Angel," which generally means one that brings a message. But we have a Hebrew word "*MLAoChoH*," which means "a work," and I rather think that the appellative noun *MaLaOch* is derived from it, and its meaning is "a worker." It is in this sense that Malachi iii, 1, is to be rendered: "Behold me sending my worker, and he shall clear a way before me."

E. M. EPSTEIN, M. D.

HARVEST MOON. The Harvest Moon, says a writer in the August issue of the *Popular Science News*, is the full moon which falls on or near the 21st of September. Its peculiarity is that it rises more closely after sunset for a number of nights after the full than any other full moon in the year. This results in four or five successive nights being almost moon-lit, and the opportunity thus given for evening work in harvesting has led to this full moon being distinguished by the name of Harvest Moon. The difference between the moon's times of rising on successive nights averages about fifty minutes. The greatest difference occurs in the spring, when it may reach an hour and a half. The Harvest Moon may rise over half an hour later each night, while under the most favorable conditions the difference is ten minutes. The full moon following September likewise rises but little later from night to night, and is called the Hunter's Moon. The moon's orbit makes the least angle with the horizon at the autumn equinox ; and as it becomes, in advancing one day's motion along its orbit, less depressed below the horizon than at any other time, it has but a little greater hour angle to travel over each succeeding night after sunset to bring it into view. Hence, the full moon for so many successive evenings in late September.

AMERICAN SPECIALTIES. That handy tool, the "monkey-wrench" is not so named because it is a handy thing to monkey with, or for any kindred reason. "Monkey" is not its name at all, but "Moncky." Charles Moncky, the inventor of it, sold his patent for \$2,000, and invested the money in a house in Williamsburg, Kings County, where he now lives. *Iron*, a London trade paper, says that 80,000 dozen Moncky wrenches are exported to Europe annually. "The toolmakers and machinists of Europe," says *Iron*, "such as Krupp, of Germany; Withworth & Armstrong, of England, and Hotchkiss, of France, with their vast resources are unable to produce a Moncky or screw-bar wrench equal to the American wrenches, and consequently they have to import these tools from the United States."

On the same subject the same journal continues: "Our American contemporaries have every cause to be surprised at the astonishing fact that thousands of tons of scrap-iron are every year taken to the United States and there converted into the simplest manufactures, sad or laundry iron, and then exported back at no small profit.

There is no one corner of Europe where the American small-cast hardware is not on sale. In the matter of the common pocket box-wood rules, the American manufacturers so far excel all others that if not all European nations, certainly all nations outside of Europe, are supplied from America. The manufacturers there print on the rule whatever system of measurement is followed by the country for which the goods are intended. American auger and auger-bits are used the world over, no other nation being able to compete. The Americans with such facts before them, may well feel proud of their manufactures."

A BRIEF POEM. One of the briefest Biblical-historical poems, on the fall of man we have seen, is the following by Grundtvig, translated by T. Rhys Evans :

" World dead ; empty and desolate ; Hell-wilderness ; Gloom and darkness ; the Shadow-kingdom ; the World's corpse ; Winter night ; rocks bare ; goblins cold ; dead forces ; Work thereafter ; Angels fell ; confusion all ;—Spirit brooding over the deep."

ALCHEMICAL ENIGMA, composed by Thomas Channock in 1572.

When VII tymes XXVI had run their rase
Then Nature discovered his blacke face;
But when an C and L had overcome him in fight, -
He made him wash his face white and bright.
Then came XXXVI wythe the greate rialtie,
And made Blacke and white away to fle.
Me thought he was a Prince off honoure,
For he was all in Golden armour,
And one his head a Crowne off Golde,
That for no riches it might be solde.
Whiche tyll I saw my hartte was colde,
To think at length who should wbye the felde
Tyll Blacke and White to Red dyd yelde;
Then hartely to God did I pray
That ever I saw that Joyfull day.

DJAFAR.

THE "BENEFIT OF CLERGY." The meaning of the phrase "benefit of clergy" is not, perhaps, very generally understood. The custom had its origin in those days of intellectual darkness when the state of letters was so low that any one found guilty in a court of justice of a crime which was punishable with death, if he could prove himself able to read a verse in a Latin Bible he was pardoned, as being a man of learning, and therefore likely to be useful to the State ; but if he could not read he was sure to be hanged—"without benefit of clergy." This privilege, it is said, was granted to all offenses, excepting high treason and sacrilege, till after the year 1350. At first it was extended not only to the clergy, but to any person who could read, who, however, had to vow that he would enter into holy orders, but with the increase of learning this "benefit of clergy" was restricted by several acts of Parliament, and was finally abolished only so late as the reign of George IV.—*Glasgow Herald*.

"AGENT, ACTOR, OR DOER." A witty French traveler once observed : " Amsterdam bargains, Atherton conspires, Berlin meditates, Brussels argues, Dublin begs, Edinburg dreams, Frankfort counts, Geneva reads, Hamburg eats, Hanover sleeps, New York, operates, San Francisco grows, Constantinople bathes, Copenhagen dresses, Leipzig studies, Lisbon smiles, London yawns, Marseilles sings, Munich drinks, Naples sweats, Paris chats, St. Petersburg drinks tea, Venice loves, Vienna digests, Warsaw sighs, and Rome prays."

QUEER NAMES. Mr. Tollemache, the rector of South Wytham, in England, has his children named :

Lyulph Vdwallo Odin Nestor Lyonel Foedmag Hugh Erchenevyne Saxon Esa Cromwell Orma Nevill Dysart Plantagenet Tollemache-Tollemache.

Mabel Helminham Ethel Huntingtower Beatrice Blazonberrie Evangeline Tise de Loui de Arellane Plantagenet Toedmag Saxon Tollemache-Tollemache.

Lyonia Decima Veronica Eoyth Undine Cissa Hylda Rowena Ada Phyras Ursula Ysabel Blanche Lelias Dysart Plantagenet Tollemache-Tollemache.

LONGEST SENTENCE. Here is the longest correct sentence of "thats" which we have yet seen : " I assert that that, that that 'that,' that that that that person told me contained, implied, has been misunderstood." It is a string of nine "thats" which may be easily "parsed" by a bright pupil.—*Boston Journal of Education*.

ABBREVIATED NAME. The abbreviated name of a lake near Web-Mass, as appears on the maps is "Chaubunagungamaug." The full name is "Chargoggagoggmanchangaggaggagungamaug."

TWO LATIN INSCRIPTIONS. (Vol. IV, p. 302.) I send herewith two Latin puzzles, one an inscription on a coin, on the other side of which was the name of Paulus under a human figure evidently intended for the apostle of that name. The second was inscribed upon a tomb in Holland, to the memory of John Van de Capellan :

1. Benedicite in excelsis Deo Domine de fontibus Israel ibi bini anima adolescentulus in mentis excessu.

2. Ut post bella policella de Capella Jacopo referetur deprecatur undatoris filio.

Cujus pater primus later fundi stater estat grandi precis.

GEO. R. HOWELL, Albany, N. Y.

Some one please translate the above and send to NOTES AND QUERIES.

CURIOSITIES OF THE DIGITS. The ten digits all used once each, can be placed in a fractional form to represent either of them. The following are specimens, I know there are other ways than these, and have no doubt, that every number up to 100 can be so represented. I will let those who are curious in such matters pursue the subject further.

$$(1) \frac{62}{31} - \frac{970}{485} = 0$$

$$(8) \frac{41832}{05976} = 7$$

$$(2) \frac{62}{31} \times \frac{485}{970} = 1$$

$$(9) \frac{25496}{03187} = 8$$

$$(3) \frac{97062}{48531} = 2$$

$$(10) \frac{57429}{06381} = 9$$

$$(4) \frac{17469}{05823} = 3$$

$$(11) 6 \frac{30192}{7548} = 10$$

$$(5) \frac{23184}{05796} = 4$$

$$(12) 59\frac{1}{2} + 40\frac{38}{76} = 100$$

$$(6) \frac{13485}{02697} = 5$$

$$(7) \frac{34182}{05697} = 6$$

$$(13) 91 \frac{5742}{0638} = 100$$

Another little feature of the ten digits is as follows :

$$\frac{67389}{21450} = \pi = 3.1416 +$$

T. P. STOWELL, Rochester, N. Y.

ERRATUM. (Vol. III, p. 213.) Our correspondent "WILMARTH" informs us that he wrote the name of *William T. Harris* in 17th line from top, instead of "Thomas Lake Harris."

QUESTIONS.

1. What is the difference, if any, between a Jew, Hebrew and an Israelite?
JOHANNES.

2. What is the electrical theory of the universe? D. M. D.

3. What is the "key of death"? D. M. D.

4. Where is the river of natural ink, and how is it accounted for?
D. M. D.

5. Who wrote the following lines, and when and where were they written?

"O thou Parnassus! whom I now survey;
Not in the frenzy of a dreamer's eye,
Not in the fabled landscape of a lay;
But soaring snow-clad through thy native sky,
In the wild pomp of mountain majesty,
What marvel that I essay to sing?"

M. O. WAGGONER, Toledo, O.

6. Why is the familiar tune "Old Hundred" so called?
STUDENT.

7. Where in the works of Hermes Trismegistus is found the quotation credited to him in Vol. III, p. 61. "God is a circle whose circumference is everywhere, and whose center is nowhere to be found."
WANT TO KNOW.

8. What is the law of the planets—called "Bayne's Law"?
BELGRADE.

9. Can any of your readers give the year copper cents and half cents were first and last coined, also, dates of first coinage of "nickel" coppers, three, and five cent pieces?
MOT.

10. Recently a body was exhumed, in a New Hampshire town, which had been buried some nine years. When digging it was found the body had become petrified and was as white marble. Would another body, buried in the same spot be likely to petrify?
G. O. U., Concord, N. H.

11. Who was Emma Jane Warboise the authoress of "Mr. Montmorency," "Emilia's Inheritance," and about a score of other charming books?
ADMIRER.

12. Who is the author of "Hew to the line, let the chips fall where they may"?
XENOPHON.

13. Who wrote "I've seen a bishop dance a reel; and a sinner fast and pray," etc.?
XENOPHON.

14. Who is the author of these lines, and where found?

"These birds of Paradise but long to see,
Back to their native mountains?"

B. C. B.

Incidents and Reminiscences.

(Continued from NOTES AND QUERIES, Vol. II, pages 461—464.)

Mr. Charles J. Stratford, father of Dr. Henry K. Stratford, of Chicago, Illinois, some years before his death, compiled a collection of incidents relative to the city of Boston, Revolutionary War, etc., which are of much value as souvenirs of that period. Mr. Stratford was well connected, of great fidelity, and his statements need no other verification.

SUPPLEMENT TO PHILLIS WHEATLEY'S STORY. *Extract from the Transactions of the Massachusetts Historical Society, obtained from the New York Historical Antiquarian Society, Sept. 1, 1866.* "Phillis married on the 18th of August, 1771, and died in Boston on the 5th of December, 1784. Mr. John Wheatley was a tailor by occupation, lived in King street (now State street). His family consisted of himself and wife, whose name was Susannah, their son Nathaniel and daughter Mary. These children were twins, born May 4, 1743. Three other children born subsequently had died in their youth. Mrs. Wheatley died on the 3d of March, 1774, aged 65 years. Mr. Wheatley died 12th of March, 1770, aged 72 years."

"Some time after Phillis' return to Boston, her volume of Poems was offered for sale. The following advertisement appeared in the Boston Gazette of January 12, 1774: " (sic)

NOTICE.

"This day published (Adorned with an elegant Engraving of the Author.) Price 3s. 4d. Lawful Money, Bound. (Poems,) on various subjects,—(Religious and Moral,) By Phillis Wheatley. (Negro Girl.) (Sold by Murry Cox and Berry) at their Bookstore, King st., Boston. N. B.—The subscribers are requested to apply for their copies. A reprint from the London Edition by Barlow and Kennedy, Applegate, London, Eng., June 24, 1774." The English Edition was dedicated to the Right Honorable the Countess of Huntingdon; bears date, Boston, Mass., June 12, 1773.

WASHINGTON'S OBSEQUIES, Dec. 14, 1799. On this day the Father of our Country died. His funeral was solemnized in Boston, Mass., with great and impressive ceremonies, firing minute guns, tolling of bells, oration, procession and universal grief. My father attended the same, taking me with him. I was so young and small, and he so tall (over six feet) that he set me astride his shoulders, holding on to my feet, while the procession passed.

How vividly do I remember the arch of about twelve feet span, carried by two horsemen; each base of the arch resting on the pom-

mel of the saddle, and inscribed, as I afterward learned in history : "First in war, first in peace, and first in the hearts of his countrymen!" I just remember the lettering, probably too young to read. Next in my memory were the hearse and span of black horses, with black plumes, and on the coffin two crossed swords,—a three-cornered military hat just behind them. Then came the noble black war-horse, attired with military equipage led by a colored man in livery; then followed a small platform carriage with a Grecian urn, which I have since learned in ancient Grecian history was used to deposit the heart [ashes] of a renowned warrior in. This urn, then, was emblematic! of containing the heart [or rather the ashes] of our great Deliverer. And here my memory fails of other objects; only that the sections of men and horsemen, too deep, reached from gutter to gutter. Mother told me that the day was one of great severity, and that nearly every one took cold, and it was denominated "the Washington Cold."

HOOPS AND TRAILS. About the year 1798-9 it was the fashion for ladies to wear a steel hoop sewed in the bottom of the dress, some three feet or more across. The lady had to throw it up with the heel and catch it with the hand, in order to elevate it edgewise behind, so as to glide into the pew side-ways, and sit down with the back of the hoop at the top of the their head. The elasticity of the hoop, however, at the present day, entirely obviates this difficulty. This style, if my memory serves me, was mostly worn by the middle-aged; inasmuch as there was another fashion which prevailed amongst the higher and older matrons of the day. It consisted of trails from three to four, and even to six feet in the hind breadth, tapering down to a point in form of a capital V. But the Dames of those days showed more good sense than those of the present century. They had trail-bearers to keep them off the ground; so tenacious were they of soiling those costly brocades; and this honor was a mark of distinction in any family for boy or girl. It was my good fortune to officiate for my Grandmother. I remember well her frequent admonitions; "Keep it off the bricks, Charley-boy;" "Keep it out of the dust, dear." O, it was different from the prodigal manner in which the silly women of the present day and age (1860-6) suffered their rich and costly dresses to sweep the sidewalks, licking up all manner of filth and dirt. As a certain Poet says :

"O Fashion, Fashion! foolish thing!
What into fashion will they bring?"

At parties the privilege above permitted the trail-bearer to be one of the guests, and of course, a partaker of the good things served upon those occasions.

YELLOW FEVER, 1799-1800. Doubtless there are many still living who remember as I do when this scourge of the human family visited Boston, Mass. I will relate a few of the incidents still fresh in my

memory; that of barrels of tar and rosin being burnt in all the public squares; also hogsheads of tobacco to fumigate the town, and a little bag of camphor pinned inside my bosom; also, the dead-cart going round with tarred sheets to wrap the bodies in, and the red death-flag hung out of the window. Grandmother declared (so mother said) that she would not stir till it came into High street. Soon she heard that Mrs. Coulton of Purchase street was dead; next, Mr. Rawson the trumpeter, living nearly opposite, was also dead. Soon the dead-cart arrived. I was standing outside the gate, curious to see all the movements. I saw the cart back up under the chamber-window, a plank set up from the cart, and the huge body of Rawson sliding down into the cart. Mother said the manner of rolling was: "Once over, ends folded in head and feet, and then over and over until all the sheet was taken up; this was all the coffin the dead received." The graves were nine feet deep, and received three corpses, one on top of each other.

Now came the exodus. Grandmother's silver consisting of a tankard, creamer, sugar-bowl, the large and small spoons of both families, were packed into a candle-box and buried under the locust-tree in the little front yard. I remember getting into the public hack and leaving for Weston, to her brother Colonel Thomas Marshall's; till the epidemic abated sufficiently to warrant her return.

POWDERED HAIR, 1801. In connection with other incidents, I will relate one which mother told me, actually transpired at church. It was the custom of those days to powder the hair with a composition called *Pounce*—a white powder variously scented, as the present practice with cologne. It was used by all the males from childhood up to extreme old age. On a certain Sabbath, while at church, in the square pew, we three boys were all there, Daniel and Henry sitting each side of grandmother, and myself with mother. This brought me opposite the boys. I observed they were powdered, and not recollecting having been served, lapped my hand upon my head twice in succession, first in front and then behind. Thus becoming assured I was minus the powder, exclaimed aloud: "Marm, I ha'n't been powdered!" "Hush, hush!" said she, much confused.

PUBLIC CASTIGATION AND HOMICIDE, 1802. If I am not mistaken in the date I must have been about seven or eight years old. I had obtained leave after school to take dinner at Aunt Ann and Mary Marshall's in Congress street. Just before I got to Congress street, nearly opposite John Kuhn's tailor shop, my attention was drawn toward Kuhn's, seeing a man rattaning another. Just then "bang" went a pistol, and down went a man. The parties were both lawyers. James T. Austin and Thomas O. Selfridge. In the political cant of those times, the former was a Jacobin, the other a Federalist. Honestus Austin, (nicknamed "Old-hone") father of James, edited *The*

Independent Chronicle, and Benjamin Russell, *The Columbian Centinel*. All the parties were rabid politicians. Selfridge published a sarcastic article. Young Austin read it, fired up, went to a cane-shop, and bought a rattan, saying: "This is for Tom. O. Selfridge's back." It soon got to Selfridge's ears, and he goes and buys a pistol and gives out that he went armed. They met as above stated. Austin asked Selfridge if he was the author of the scurrilous article in yesterday's *Centinel*. Being answered in the affirmative, he commenced flagellating. Selfridge knowing the law backed up against the brick wall; Austin following up close and chastising severely. Selfridge says: "I can go no further; this in law is my castle," and fired, killing him instantly. These facts I obtained from the printed trial, loaned to me in 1822. Austin's body was carried into the Post-office, and a carriage ordered. I climbed up on the hind wheel, and got sight of it through the open window. Just then the driver ordered me down, and I departed. Afterward I heard a boy say in the street that Selfridge had gone clear.

PUBLIC WHIPPING, 1804. I witnessed three exhibitions of this relic of barbarism in my youth; one in State street, head of Congress street, head of West street. The offenses for whipping were, I suppose, all those crimes this side of murder, adultery, rape and highway robbery, such as drunkenness, larceny, burglary, desecration of the Sabbath, keeping houses of ill-fame, etc. The structure was of a peculiar kind, consisting of a frame, say twelve feet square; the post came up above the floor three feet to form a railing; the under part served as a cage for the prisoners, it being slatted round. A flight of steps leading to the platform. A post ran up in the centre some twenty feet. Now this structure served a fourfold purpose, namely: to stand in the pillory; to sit in the stocks; to be tied up to the post and whipped, receiving "forty stripes save one;" and last, though not least, to be hung from the cross-piece.

At one of these public whippings there were fourteen men and women. One man was made to go up a ladder to the top of the post and sit astride the cross-piece two hours, with a hangman's rope round his neck, while the populace pelted him with rotten eggs. A woman stood in the pillory, and one young woman [received] twenty lashes save one. The remainder were all whipped. All the whipping was on the bare back; and the cat-o'-nine-tails, so called, had nine strands of cod-line, and each strand had nine knots in it. The strands were about ten inches long, made fast to a single line about ten inches long. I had this description from a man-of-war's man.

TEST OF RELIGIOUS PRINCIPLES, 1804. By profession, grandmother Wallcot was a rigid Calvinist, and worshipped at the Federal street church. Dr. Channing, successor to Dr. Popkins, commenced his heterodoxy first in his prayers; then by a few unsuspecting hints; and

at last promulgated the doctrine of Socinianism outright. This was too much for her orthodoxy ; and coming home, she said to mother :

" Well, Lucy, Dr. Channing has sawed off his log."

" How so ?" said mother.

" Why, you know I have said the Doctor has been laboring and laboring at something that I could not decipher. But at last, he has explained it all, by plumply denying the Divinity of his Saviour." " O, O, O," she exclaimed in the apparent anguish of her pious soul, and took down Dr. Watt's *Glory on Christ* and sought relief. She was a great Biblical reader. The Bible was her constant companion, in connection with the commentaries, essays and several theological authors, on all the great fundamental doctrines of these high Calvinistic and Hopkinsian times. She was constantly receiving calls from several Divines of the city, as also from the same class of strong-minded church-members, who felt it a privilege to pass an hour with 'so devout a woman. She piously believed and warmly contended for the doctrine of divine decrees, that of particular election, total depravity, the special influences of the spirit of God in regeneration, justification by faith alone, and the preservaition of the saints. She even went so far as to believe infant baptism a saving ordinance.

My honored mother, to whom I am indebted for these particulars, told me, in connection with the above tenets comprising her belief, that in her rigidness, she said to her in regard to an unbaptised infant which she buried, if she did her duty she would disinter it and have its remains sprinkled. I trust, however, that so monstrous a doctrine has long since exploded.

In view of the above strong and extraordinary faith of my estimable grandmother, if she erred, I should rather err with her in support of most of these principles, than to fall into the schismatic path of Socinianism.

WAR-HORSE, 1809. Speaking of the war-horse in the procession of Washington's funeral calls to mind one I used to see almost every Sabbath owned by Gen. Williams of Roxbury, Mass., given to him by Washington—a favor he granted to all his generals at the close of the war. Gen. Williams used to ride him to church. Boylike, I used to stand there to see him ride up and say: " Halt!" The horse would stop as if shot. After the service the boy would have him there, and when the general had remounted, he would say " forward!" and he [the horse] would start as if struck behind. The horse was forty years old; from 1783 the year of peace to 1810 is twenty-seven years; consequently the horse was thirteen years old when he entered the army. How much longer he lived I am unable to say. The oldest horse I ever heard of read of was forty-five.

WAR OF 1812 (Chesapeake). In the year 1813 I was detailed to repair the forts in Boston Harbor. I was an eye-witness to the naval

engagement in the outer harbor between the U. S. Frigate *Chesapeake* mounting 44 guns, commanded by Captain James Lawrence (who was killed), and the British ships of war, *Shannon* and *Tenedos*,—one of 36 and the other of 44 guns. The *Chesapeake* was captured. She had a raw crew, had just completed her complement, and they were undisciplined. If she had been manned with the crew of *Old Ironsides* (the *Constitution*), probably they would have been brought into port; for it took Commander Hull with the *Constitution* but forty-four minutes to send her (the *Guerriere*) to the bottom, and the captured *Java* of as many guns in thirty minutes; and he was ready for action again in less time, fearing the cannonading might direct the enemy to the scene of action.

OBLITERATED BURIAL GROUNDS, 1813. This year I commenced business in Boston, Mass. Meeting Uncle Thomas Wallcut one day on the Common, and while standing on the elevation of land just beyond the Great Tree, looking across the Back Bay to West Cambridge, talking over Revolutionary events:—"here Washington rode from the Cambridge Army to Dorchester Heights several times in one night and completed those breastworks that remain to this day, which works I helped repair in 1813. Among other things he related to me was this: looking down on the lands before us, bordering on Charles street, he said that when Washington's army was at Cambridge, the hospital was on the Boston side; that he was detailed as one of the officials of the hospital, and had superintended the burial of the dead from the hospital in those low grounds on the Common.

This fact, I presume, is known but by few, if any, but myself, to this time, (1866), as the knowledge of it was wholly circumstantial; also, [from] the fact that the actors of those eventful times have nearly all passed off the stage of life. On a recent visit to Boston, in 1865, in company with my daughter and grand-daughter, on the same elevation of land, I called their attention to the same facts and locality.

BRITISH STAMP-OFFICE AND THE LIBERTY POLE, 1818. At another time, while we were walking down Federal street he stopped directly in front of the old Boston Theatre, corner of Franklin street and opposite Dr. Channing's church, and says:

"Charles, you see the mouth of that common sewer; well, formerly, when I was a boy I used to catch smelts there,. This was the head of a creek that made up from tide-water. Its mouth was at Liberty square." At Milk street we walked down to the Square, and arriving at the Liberty-pole, he says: "I want to tell you about this pole."

Exactly at this spot stood the famous British Stamp Office, with the duty of two pence per pound on tea among the obnoxious things of those days. "Here," said he, "was the wharf, and the part of the office rested on the top-log, and stood over the dock, supported by

two posts. As matters grew warmer, a party of whigs rowed up in a boat underneath, sawed off the posts, and at ebb-tide pushed it overboard, and attaching a line towed it out in the channel, sent it down stream. It went out to sea, and was never heard from after. When the war ended, we raised a Liberty Pole on the spot, and it has ever been revered, and I hope it will be," said he, "to the latest posterity."

POLITICS, 1841. The reader can perceive by several of the foregoing incidents that my progenitors were all decided patriots and lovers of their country, and having taken pains to instil those principles into their descendants, it is not strange that on arriving at my majority which gave me the right of suffrage. I should not be at a loss how to exercise that boon. In 1816 I came in possession of this inestimable privilege. I went proudly to the polls and voted the Federal ticket. Afterward this party assumed the appellation of Whig, and subsequently that of Republican; for in essence and principle they are synonymous. Thus, through all the multifarious phases and revolutions of party strife, I never swerved from the pure Republican principles of the Revolution, taught and instilled into my nature by my patriotic mother and Uncle Thomas Walcott.

I had voted at all the Presidential elections up to that of Gen. William H. Harrison in 1840 (for whom I named my last child). I failed in that because I lived in Rhode Island; there primogeniture and landed qualifications were the prerequisites of suffrage. At this time the Dorr War came up, based on free suffrage, etc. I joined them. The ostensible purpose of the Dorr party was to upset the then existing charter of King Charles II. of England, which still gave laws to Rhode Island; they never having adopted a written Constitution, as had the other States of the Union. The seat of war was at the polls, and there I fought with all my might for free suffrage and a written Constitution. We obtained it. For this deed I lost my situation in business.

ANCESTRAL NAME OF WALLCOT. In the attempted overturn of some one of the dynasties in England, a certain family who took sides against the then reigning house, after the troubles were over, exiled themselves for a term of years, and then returned to their native land on an opposite part of the Island of Great Britain in a state of destitution; their large estate being confiscated and it being penal for them to return. They had learned the business of basket-making in Holland when they fled. In the vicinity of their present location there grew plenty of water-willows. These served them for material. In the same vicinity was an old dilapidated Fortress and Tower. Against the wall of the Fortress they erected a rude Cot; and here they abode, working at their craft, disposing of their wares at a market town near by. Here they remained for years without a name; for

they were very reticent as regards this particular. The neighbors would ask each other :

"Where are you going?"

"Over to the Wall."

And, again : "Where from?"

"The Cot."

Finally the people conjoined the two nouns together, and ever afterward they accepted the appellation, and were known as the "family of *Wallcots*." There are, however, a great diversity of names under this head, viz: Walcut, Wallcut, Wallcutt, Wolcut, Woolcut, and ours—WALLCOT.

But Heraldry settles the point as relates to us. Mother tells me that four brothers came over from England. One settled in Massachusetts, another in Connecticut, and a third in Rhode Island—no account of the fourth.

Uncle Thomas Wallcot told me in 1817, that he made a journey to Cumberland, R. I., to see that branch of the family, and found them a very thrifty people and very ingenious mechanics. Mr. Wallcot had invented a cut-nail machine—the first ever invented in the world, as all imported nails were wrought by hand. Uncle Thomas said the hammer that headed the nails, had a "W" on it for *Wallcot*. He brought home some samples of them with this initial on the head in 1855.

My son Richard hired out to a doctor in Wrentham, Mass., a border-town to Rhode Island, and joining to the town of Cumberland, where Mr. Wallcot lived. The nails in the doctor's house were all stamped "W." This was told me by my son, which coincides with Uncle's relation of the matter.

Ex-Governor Wallcot [*Wolcott*] of Connecticut is of this stock. I am not aware how he spells his name, I should not be surprised to learn the same misspelling in his line. Even our cousin Robert Wallcot of Boston in giving me several data, amongst others respecting his father's and mother's deaths, spelled it Wallcut. I was with him only a few minutes with Mrs. Shepherd at his office, else I should have conversed with him about it.

I am both spoken and written to as Mr. Stratton, Stanford, Sandford, Stamford, Stafford and Spafford. I recollect hearing my younger brother say, some forty years ago, that he travelled out of his way some miles, to see a Mr. Stratford, but lost his labor in one of the above names.

KING'S CHAPEL, BOSTON. At the termination of the war in 1783, very many pious and patriotic persons had left the town in consequence of Lord Howe's taking possession of it. At the return of peace, many came back, of whom numbers were Congregationalists, and were members of the Old South Church. That having been stripped of its pews by Howe's orders and converted into a riding school, the question arose : "Where shall we worship? The British

have destroyed our pews and mutilated our house." A shrewd man among them answered :

"The Tories have all gone to England ; let us go and take possession of King's Chapel."

This proposition was acceded to, and they worshipped in it until they could refit the Old South. A part of the congregation remained in it in order as I suppose to keep out the Episcopalians, whom they bitterly hated ; and the remainder went over to the old South.

In process of time, they of the King's Chapel became through the teachings of Dr. Freeman, Unitarian. For some reason which I am unable to give, they adopted the Prayer-book which they found in the Chapel, omitting the prayer for the King, Royal Family, Prince Regent, Parliament, and the Gunpowder Plot. But after they embraced Unitarianism, they reprinted a new edition of the prayer-book, striking out the Doctrines of the Trinity.

Belonging to the Episcopal Church myself, and happening to attend a Congregational service on a certain time, the clergyman took occasion to say that he had seen it stated that the denomination of Congregationalists was the hot-bed of Unitarianism. This he denied, inasmuch as there was one in Boston which emanated from the Episcopal church, viz : King's Chapel.

Now, I submit it to the candor of the reader, to draw his own conclusions from the above statement which I obtain from ecclesiastical and civil history, which denomination in question produced and established Unitarian principles in King's Chapel, Boston, Massachusetts ? I have yet to learn that either the Episcopal, Baptist, or Methodist denominations have ever produced this Heterodoxy.

Boston first took the lead in promulgating the doctrine of Unitarianism, in the persons of Drs. Channing and Freeman ; and it is a stubborn fact that Boston was long since dubbed "the Unitarian City."

They were so successful in disseminating their principles, that they actually overthrew the foundations of Cambridge University, whose founders were Trinitarians ; and to this day, Unitarian principles have the ascendancy in the Faculty of Harvard College.

I will mention another fact in the premises, to wit : I have seen it stated in some of the religious journals of the day, that it had been a common question when a Congregational society undertook the erection of a house of worship to ask, how long before the Unitarians would have it ? because it had become notorious that the Congregationalists built most of the Unitarian houses of worship. Reader, do you ask how this was done ? I'll tell you. Unitarians buy pews in the new house, and occasionally attend, but let out the pew to other Unitarians. One makes it a point to proselyte, and they in turn to proselyte other pew-holders, and on all occasions of sale, to buy up

the pews, as so many votes. Now, they very modestly ask the Trustees the use of the pulpit for one of their popular preachers. This is at first objected to, but finally reluctantly conceded on the ground of courtesy; and as the requests become more frequent the compliance is made more reluctantly, and finally refused.

Now comes the tug of war. The Unitarians ask: "Who owns this house?"

"We," say the Congregationalists.

"No," say the Unitarians; "and we cannot sit any longer under the doctrines set forth here, and shall insist that a Unitarian pastor be settled forthwith."

A meeting of the pew-holders is held, and they find to their great surprise, that the Congregationalists are in the minority. It follows they are sold [out]; and the edifice and all appertaining thereto are swept from them, as far as having any control in its management is concerned. The consequence is, they readily sell their pews and build again.

I have been prompted to relate these facts to counteract the statement alluded to by the Reverend gentleman in question, Timothy Taylor of Slaterville, R. I.

GREAT TOTAL ECLIPSE OF THE SUN, 1806. Being a witness of the eclipse in the above year [1806], and residing in a rural district (Brighton, six miles from Boston, Massachusetts), my opportunities for a far more extensive observation were greater than if I had been in the city.

Although it was 60 years ago this year, (1866), every occurrence that came under my observation at that non-age (standing in my eleventh year) presents itself to my memory as vividly as if the phenomenon was of but yesterday's occurrence.

In regard to the exact time of day it occurred I am somewhat at a loss to define; but from the fact that the house stood exactly North and South, the noon-mark at the kitchen door was twelve o'clock, when the door-casing cast no shadow. The gentleman with whom I lived with, Rev. John Foster, D. D., was busy smoking pieces of glass for the children and his wife's use. He ordered me to get the large rinsing-tub, which he set up against the south-side of the house close to the kitchen-door, at an angle of forty-five degrees, and told me to pour in clear water till it ran over the front edge. The water when perfectly still became a perfect mirror. From this fact I should think the eclipse occurred something near eleven o'clock; I well remember standing on an angle in front of the tub beholding the first commencement of the obscuration, and then at intervals, up to total darkness.

After these preliminaries were all attended to, about nine o'clock, I was sent away on an errand on horseback. Coming home I overtook a boarder, a Latin student of the family, about a mile from home on

the back of a restive colt that appeared to scent the approaching darkness, prancing, pawing and snorting, to the great terror of his rider.

"Very dark, Charles," said he, "I believe my sorrel is actually afraid of this sudden change. Will you take sorrel and let me have Ranger?" We both dismounted; he holding the horses while I shifted the saddle, as I was "bare-back." He mounted; and I was on sorrel's back before he [the colt] knew it. With a smart cut of the cowhide under his flank he had something else to think of besides the eclipse. I was in my glory. He jumped his length, and ran the best he knew for the tavern where he boarded.

I hastened home, and Mr. Thorndyke's son arrived. On taking Ranger to the barn he showed signs of fear, stepping into the stable with a snort; and after he was tied, snorting again. And here I will remark, it is what he never did before.

When I first got to the barn, old Chanticleer was gallanting his six wives (hens) to roost. In they went to the roost; he flapped his wings and crowed as usual. The weather was calm and perfectly serene; not a breath of air perceptible, not a note from the birds,—the stars were out in full brilliancy.

Silence reigned. It was like the "darkness of Egypt"—to be felt. The atmospheric condition of the scene is beyond description. The blending of the dark shadows of the fading light was, as I view it, of that mixture that human pen or pencil could not portray. It called to mind what I have often thought, namely: who can paint the rainbow with its seven colors?

Here is an extract from the *LaCrosse Republican*:

"At a gathering of Old-Folks at the residence of his son-in-law, Alexander Shepard, Esq., given by Mrs Shepard in honor of both the natal and nuptial days of her honored father, Charles J. Stratford, residing with them—the former occurred on August 13, 1795, the latter on August 13, 1820—there were present twenty-one persons, male and female. Their respective ages in the aggregate amounted to 1138 years. The average age was a fraction over 54 years. This may look low in point of old age; but it must be remembered the West is in its youth; and few go there but the young; and mind the aged people have not as yet grown old here, but are here as emigrants, both from Europe and the States, as will appear from the following statistics: The States and countries represented on this interesting occasion, the first of the kind in our city, were as follows: New York, 6; Pennsylvania, 3; Connecticut, 2; Massachusetts, 2; New Hampshire, 4; Maryland, 2; England, 1; Switzerland, 1. Oldest person, 75; youngest person, 46.

Tea was served, agreeable to custom forty-five years ago in Boston. The best of feelings prevailed, and all seemed to have renewed their age; probably in part from the exhilarating effects of the beverage."

New Books, Pamphlets, etc., Received.

A REFORMED ALPHABET OF THE ENGLISH LANGUAGE. By Dr. J. P. Grumwell, Damascus, Ohio. Enterprise Print, Brighton, Ia.

This is a little pamphlet opening with a brief history of the science and development of language from its origin, and especial attention is paid to the deficiencies of our own, the latest, most complex, and widest diffused and used. On account of its present and future importance it sadly needs reforming, as all pupils and teachers will attest. The author advocates the dropping of some letters now employed, and the substituting of others, as well as for certain sounds, mostly a combination of h with some other letter. He proposes several entirely new characters, mostly inverted letters of some now used. New names are also bestowed on more or less of the symbols employed. They are comprehensively presented by tables.

NON RESIDENT INSTRUCTIONS. Post Graduate Lessons in Christian Spiritual Science. Price 20 Cents. By Prof. J. A. Swarts, President of the Spiritual Science University and editor and publisher of *The Metnal Science Magazine*, Chicago. Small pamphlet.

The plan is after that of the Chautauqua and other courses and aims to graduate students with legally recognized diplomas for \$25.00 if they can correctly answer 125 out of 144 questions.

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MISCELLANEOUS
NOTES AND QUERIES,
WITH ANSWERS.

"If Jupiter were to speak, he would speak as Plato did."—CICERO.

VOL. IV.

DECEMBER, 1887

No. 12.

QUESTIONS AND ANSWERS.

"YE SWANS OF STRYMON." (Vol. IV, p. 396.) Who is the author of, and where found, the following : S. C. G.

"Ye swans of Strymon, in loud notes complain,
Pensive, yet sweet, and droop the sickly wing,
As when your own sad elegy ye sing."

In Fawkes' translation of Moschus, a Greek poet who flourished about 270 B. C., in an elegy on the death of Bion, Idyllium III, commencing with line 21, is found the following lines :

"Begin, Sicilian mutes, the mournful strain,
Ye swans of Strymon in loud notes complain," etc.

That the ancients believed that the swan sang in a musical strain while in its death-throes, is absolutely certain. By quoting a few of the many ancient (and also some modern) authors, we are led to believe that this was the prevailing opinion. The swan never displayed its musical qualities until its death approached.

De Rerum Natura, Book IV, commencing with line 556, we have :

"Nor are the figures of the seeds alike,
Which form the grave and murr'ring trumpet strike,
To those of dying swans, whose latest breath,
In mournful strains lament approaching death."

Emily says, " I will play the swan and die in music." (Othello v, 2.)

" What is that, mother ?

The swan my love.
He is floating down from his native grove,
No loved one now, no nestling nigh;
He is floating down by himself to die;
Death darkens his eye, and unplumes his wings
Yet the sweetest song is the last he sings;
Live so, my love, that when death shall come,
Swan-like and sweet it shall waft thee home."

DR. G. DOANE.

Lucretius' *De Rerum Natura*, Book, IV, line 909 :

" Thus dying swans, though short yet tuneful voice,
Is more delightful, than a world of noise."

Of the swan (*Cygnus Olor*), Ermen says : " This bird, when wounded, pours forth its last breath in notes most beautiful, clear and loud." (Travels in Siberia, Vol. II).

Mr. Nicol says of the *Cygnus Musicus*, that its tones resemble the violin, but somewhat higher. Each note occurs after a long interval, and that the singing of the swan in Iceland indicates a thaw, hence one of its great charms. (E. Cobham Brewer's Dictionary of Phrase and Fable, p. 866.)

The *Cygnus Olor* in its wild state is found in the eastern part of Europe and in Asia. It is known to live for at least fifty years. It is an extremely beautiful bird, when seen swimming with wings partially elevated, as if to catch the wind, and finely curving neck. The ancients call the swan the bird of Apollo, or of Orpheus, and ascribe to it remarkable musical powers, which it was supposed to exercise particularly when its death approached. (Chambers' Dict. of Universal Knowledge, Vol. IX, p. 233.)

The swallow being an importunate chattering bird represents the ignorant; but the swan who never sings till he feels his death approaching, seems by that to foresee that there is some good in death. (Cicero in Tufcul I.)

" Place me on Sunium's marble steep,
Where nothing, save the waves and I,
May hear our mutual murmurs sweep;
There, swan-like let me sing and die."

(Byron's Don Juan, Canto III, Stanza 86.)

" Can ples contend with nightingales? The owl
With swans? but you love discord at your soul."

(Fawkes' Translation of Theocritus, Idyllum V, lines 145-6.)

" When shall the swan her death note singing,
Sleep with wings in darkness furled?
When will heaven, its sweet bell ringing,
Call my spirit from this stormy world?"

(Moore's Irish Melodies, Song of Fionnuala.)

P. M. C., Manchester, N. H.

"THE PATH BY WHICH TO DEITY WE CLIMB." (Vol. IV, p. 396.)
 Give name of author, and poem, from whom was taken the following
 lines found in the preface to the "Divine Pymander" by Hermes
 Trismegistus—the P. B. Randolph edition. S. C. G.

"The path by which to Deity we climb
 Is arduous, rough, ineffable, sublime;
 And the strong, massive gates through which we pass,
 In our first course, are bound with chains of brass.
 Those men the first, who, of Egyptian birth,
 Drank the fair waters of Nilotic earth,
 Disclosed by actions infinite the road,
 And many paths to God, Phœnicia showed;
 This road the Assyrian pointed out to view,
 And this the Lydian and the Chaldean knew."

. This was said to be an oracular utterance of the Klarion Apollo, and is found in Eusebius. A literal rendering would be about as follows :

: "The Way to the Blessed ones is very rough and difficult ; the first approaches to it are by the two-leaved gates set in brass ; the paths are by the nature of things ineffable, which the first of mortals, they who drink the delicious waters of the Nilotic land show forth by unceasing action. The Phœnicians, the Assyrians, the Lydians, and the race of Hebrews also, taught the Ways of the Blessed ones."

Thomas Taylor, the first translator of the Platonic writings into English, rendered the words into verse as the questioner has quoted it, substituting *Chaldeans* for "Hebrews." He believed that Aristotobulus or Eusebius himself had tampered with the text, and that Chaldeans was the original word used. This is more than probable. The Chaldeans were a very ancient people, originally of Akkadian origin, skilled in astral lore and arcane learning ; while the Hebrews were far more recent and totally unqualified to be classed with enlightened nations like the Lydians, Egyptians, and Assyrians. The questioner hardly need to be told that the Path of the Blessed Ones means exoterically the orbits of the fixed stars or superior gods, and esoterically the "Way of Holiness," which no impure being can walk upon or ever find. Hence, it is the way from the world of sense to the higher region of spirituality and intelligence, and is entered by the "two-leaved gates." Thus, as in death, a person having once passed through these, he can never return to the common world-life as he was before. The woman once a wife is no more a maid.

A. W.

THE MIRACLE AT CANA IN GALILEE. (Vol. I, p. 6.) I came across the full verse from Crashaw, from which the two lines about the blushing water was taken. It ought to settle the dispute about authorship. The verse appears in a life of Crashaw in a biographical work of four volumes called the "English Nation." I copy both the Latin original and the translation :

" Unde rubor vestra et non sua purpura lymphis;
Que rosa mirantes tam nova mutat aquas ?
Numen (convivæ) præsens agnoscite numen !
Nympha pudica Denm vidit et erubuit."

" Whence the crystal's strange impurpled dye ?
Why with new and rosy redness flushed ?
Remember, friends, the Dely was by ;
The conscious water saw its God and blushed."

N. B. WEBSTER, Norfolk, Va.

THE FIRST BLACKBOARD FOR PURPOSES OF INSTRUCTION. (Vol. IV, p. 396.) Can you tell me if it is correct that the first blackboard for purposes of instruction was made by Claudius Crozet, one of Napoleon's officers from Wagram to Waterloo, and afterwards teacher of mathematics at West Point, about 1816 ? W. A. WOOD.

I was associated with Col. Crozet in teaching in the Richmond, Va., Academy, in 1847-48, and had the fact about the blackboard from his own lips, as stated. It was mentioned in one of Commissioner Barnard's early Educational Reports. N. B. WEBSTER.

MISQUOTATIONS OF THE SCRIPTURES. (Vol. IV, p. 385.) To your "misquotations" you may add the following :

"God out of Christ is a consuming fire." The genuine passage is :
"For our God *is* a consuming fire." (Heb. xii, 29).

The following used to be much quoted : "If ye die in your sins, whether I go ye cannot come." John viii, 21 reads : "Then said Jesus again unto them, 'I go my way, and ye shall seek me, and shall die in your sins ; whither I go, ye cannot come.'" A. W.

CŒUR DE LION, JACQUES DE MOLAY, HUGH DE PAYENS. (Vol. IV, p. 395.) Who were these persons from whom Masonic bodies are often named ? CRAFTSMAN.

Cœur de Lion was a name of Richard I of England who fought in the Crusades. Jacques de Molay was a Grand Master of the Knights Templar, and was tortured and put to death by Philippe le Bell (IV) of France. I do not remember Hugh de Payens, but think he was another of the Knights Templar. A. W.

GOLD, OR GOLDEN. (Vol. IV, p. 395.) Why do not people say "golden chain," "golden dollar," as they say "golden rule," "golden number," etc., instead of "gold chain," "gold dollar," etc. ?

G. S. CLARK.

Dollars and chains are made of gold, but rules and numbers referred to are not made of metals.

N. B. WEBSTER.

THE CURVE CALLED BRACHYSTOCHROME. (Vol. IV, p. 395.) What is the "brachystochrone," from which it is proved that the quickest time between two points is a curve rather than a straight line ?

G. S. CLARK.

The brachystochrone or *curve* of swiftest descent is the *cycloid*, but it is *not* a path of swifter or quicker descent than a *perpendicular*. I think one of Dr. Steele's books errs in speaking of this curve.

N. B. WEBSTER.

The brachystochrone is the name by which John Bernoulli gave to his celebrated problem of the "Curve of quickest descent"; that is

"To find the curve along which a body would descend from a given point A, to another given point B, both in the same vertical plane, in the shortest time possible."

At the first view of this problem, it would seem that a straight line, as it is the shortest path from one point to another, must really be the line of swiftest descent; but this has been demonstrated not to be so, for when we consider that in a concave curve, described from one point to another, the moving body descends at first in a direction approaching more to a perpendicular, and consequently acquires a greater velocity, than it would down an incline plane; this greater velocity is to be set against the length of the path, which may cause the body to arrive at the point B sooner through the curve than by the incline plane. Metaphysics alone cannot solve the question. In fact, it requires the utmost accuracy of mathematical investigation and calculation, and proves that the path required is a curve called a *cycloid*, inverted. A cycloid is a curve which would be generated in space by a point in the circumference of a wheel rolling upon a plane. The starting is at the tangent of the wheel with the plane, and the cycloid will be generated by one revolution of the wheel.

The brachystochrone, like the gyroscope, the asymptote the pelecoid, and other problems, is a paradox.

THE PLEIADES. (Vol. IV, p. 401.) What are the Pleiades and why so called? J. J. J.

The *Pleiades* according to Fabricius, were seven poets, who received their name from their number; they flourished in the age of Philadelphus Ptolemy. Their names were Apollonius Rhodius, Aratus, Callimachus, Lycophron, Nicander, Philicus or Homer the Younger, and Theocricus.

The literary Pleiades of Charlemagne were Alcuin (called Albinus), Angilbert (called Homer), Adelard (called Augustus), Riculfe (called Damætas), Charlemagne (called David), Varnefrid, and Eginhard.

The first French Pleiades (sixth century) were Ronsard, Dorat, Du Bellay, Remi-Belleau, Jodelle, Baif, and Thiard.

The second French Pleiades (seventh century) were seven contemporary poets in the reign of Louis XIII, inferior to the first Pleiades. Their names were Commire, Duperier, Larne, Menage, Petit, Rapin, and Santeuil.

Anthon says the name Pleiades was given to seven ancient tragic writers. Who were they? THOMAS T.

THE PLEIADES. (Vol. IV, p. 401.) It is stated in the article on the Pleiades, "Merope was the only one who married a mortal, and on that account her star is dim among her sisters." Please state the names of those they married. HELEN.

According to Anthon, "seven of the daughters of Atlas and Pleione" married as follows: Alcyone married Neptune and bore Hyrieus; Celæno married Neptune and bore Lycus; Electra married Jupiter and bore Jason and Dardanus; Maia married Jupiter and bore Mercury; Sterope married Mars and bore Œnomaus; Tayegta married Jupiter and bore Lacedæmon; *Merope* married *Sisyphus*, who was punished in hades by Pluto "to roll to the top a high hill a huge stone, which had no sooner reached the top than it rolled back with impetuosity, and then the task was repeated continually," an illustration of eternal punishment.

The Pleiades consist of one star (Alcyone) of the third magnitude, three of the fifth, and two of the sixth, and several smaller ones. It requires a strong eye to discern more than six stars in the group. Several ancient authors mention seven, and the ancients had several account to give of "the lost Pleiad." One account makes Electra to

have been the lost seventh star, that she withdrew her light in sorrow at the fall of Ilium and the misfortunes of her descendants, she having been the mother of Dardanus the founder of Troy. Another account says that "the lost Pleiad" moved away from that cluster to the constellation *Ursa Major* and became the third star in the tail of the "Great Bear," where it received the name of "the Fox." The Romans call the Pleiades *Vergiliæ* from their rising in the spring.

According to Ovid (*Fast.* v, 83,) Pleione had twelve daughters by Atlas, seven of whom gave their names to the Pleiades and the other five to the Hades, the group of stars in the head of Taurus, formed like a letter V. Their names are Ambrosia, Eudora, Coronis, Phaola, and Polyxo.

THE ROSICRUCIANS. (Vol. IV, p. 395.) What is the difference, if any, between the principles and objects of the Rosicrucians, and the Princes of Rose Croix,—the 18th Degree of Ancient and Accepted Scottish Rite?

G. S. CLARK.

The Rosicrucians do not derive their name like Rose Croix Masons from the Rose and the Cross, as they have nothing to do with the Rose. The Rosicrucians, it is claimed by many writers, received their name from the Latin *ros*, dew, and *crux*, cross, as a hieroglyphic of light which Mosheim explains that of all natural bodies, dew was esteemed the most powerful solvent of gold, and the cross in chemical language, is equivalent to light, because the figure of a cross (+) exhibits at the same time three letters, of which the word LVX (LUX) or *light* is compounded. The symbol of the Rosicrucians was a single rose upon a passion cross (+), while the symbol of a Rose Croix Mason is four roses surrounding a St. Andrew's cross (X). The two systems have often been confounded by persons who are in possession of only one system; but they are two separate and distinct grades with separate objects in view. However, there is much controversy on the origin of both.

THE ARGONAUTS. (Vol. IV, pp. 395, 402.) Who were the fifty-four argonauts?

MILTON E. BOND.

The story of the argonauts relates to arcane or initiatory rites. Each of the heroes is connected with a local tradition and with the worship of a people or state. This mythos blends them into one dramatic poem, and thus shows them to belong to a common religion,

common alike to the states of Greece and the countries of middle and western Asia. The dragon of Kolchis, the hydra of Lernê, the lion of Nemaia, the minotaur of Krete and Phrygia, and the demon Cacus of Aventine, were of one genus and family. In the argonautic group, the rites of Zagreus, the Kabeiri, the Asklepiads, and others, were collected. I suppose that the poem of Apollonius Rhodios gives the names of those who are said to have participated in the "Expedition." A copy of the poem is in the New York State Library, and doubtless the worthy librarian, Mr. H. A. Homes, if requested, would cheerfully furnish them.

A. WILDER, M. D.

THE NAMES, WILLIAMS AND SAWYER. (Vol. IV, p. 394.) Required the origin, nationality, and meaning of the name Williams. What is it from in French? Also the name Sawyer? J. W.

Williams is a Welch name of the category of Jones, Davis, etc. The name was originally of *Guyllym*, but latter usage placed the *s* at the end, as "ym" is used by the Scandinavian people. I doubt its origin from the French *Guillaume*. I know nothing in regard to the name *Sawyer*. It appears among the early surnames in Massachusetts, and despite its apparent English form, I suspect it to be French, the name of some Huguenot emigrant—*Sayer* or *Saukem*. A. W.

NAMES OF SEA-FAREING MEN. (Vol. IV, p. 395.) Give the real difference, if any, between the meaning of sailors, seamen, marines, mariners, and old tars. CHAS. H. BURNETT.

A sailor is the name usually applied to a sea-fareing man who ships before the mast and performs the menial duties on shipboard.

The seamen properly speaking are men who are capable of performing all duties in the management of a vessel at sea. Such men are called able seamen; and they are expected to be thoroughly acquainted with everything pertaining to the duties required of practical seamanship, but are not necessarily required to understand navigation theoretically; while men of less experience are called ordinary seamen. An ordinary seaman is required to know how to hand, reef and steer, and also "box the compass."

A marine is a soldier in uniform as such, and enlisted as such, and is never employed at sea only on vessels of war in the naval service to perform duty. In action they are employed as sharp-shooters, usually being stationed in the fore and main tops as the best position

to perform the greatest execution. When on shore they always drill and act as infantry, but at sea are sometimes assigned positions with heavy ordnance or as pikemen.

A mariner is a man who is employed in sea-faring life either as an officer, navigator, or common sailor.

Old tar is a nautical phrase applied to an old sailor of large experience, the same as as old salt, old shell back, etc.

P. M. C., Manchester, N. H.

BAYNE'S LAW. (Vol. VI, p. 412.) What is the law of the planets called "Bayne's Law" ?

BELGRADE.

This law is an extension of what is known as "Bode's Law" of planetary distances. The presence of such a planet as Jupiter, just where it is, seems to afford ground for the belief that our astronomers have not yet reached the limit of the solar system. Jupiter seems to be a sort of subsidiary sun to the limit of the as yet undescried region.

If Bode's Law be critically examined there seems to be a further development of a law that it can be made to answer, and the conclusion reached by Dr. Bayne is that it is incomplete without further addition. When the extension is made, according to the new law of extension, it is claimed to be more complete. Let us illustrate this.

Bode's Law (N. AND Q. Vol. II, p. 330), is expressed as follows:

0,	3,	6,	12,	24,	48,	96,	192,	384.
4,	4,	4,	4,	4,	4,	4,	4,	4.
4,	7,	10,	16,	28,	52,	100,	196,	388.

This last result is obtained by adding 4 to each of the terms of the geometrical series. The singular result is presented that the geometrical relation as to distance is preserved up to the *eighth*, or octave, when it suddenly changes; the real distances of the planets being as follows, as given in Brocklesby's "Elements of Astronomy," p. 196:

Neptune,	286.2
Uranus,	182.8
Saturn,	90.9
Jupiter,	49.5
Asteroids,	27.5
Mars,	14.5
Earth,	9.5
Venus,	6.8
Mercury,	3.6

Instead of doubling on 192, it adds only 96, for Neptune, 288.

Following up this clew, Dr. Bayne adds 48 to 288 to obtain 336; 24 to 336; 12 to 360; 6 to 372; 3 to 378, which completes his law.

Dr. Bayne predicts that when any more planets are discovered beyond the orbits of Neptune, they will accord with the distances as represented by the extension of the figures of "Bode's Law." These figures represent "Bayne's Law," as follows :

0, 3, 6, 12, 24, 48, 96, 192, 288, 336, 360, 372, 378, 384.
4, 7, 10, 16, 28, 52, 100, 196, 292, 340, 364, 376, 382, 387.
3, 6, 12, 24, 48, 96, 96, 48, 24, 12, 6, 3.

Time only will tell whether any ultra-Neptunian planets exists, and if the "Bode-Bayne Law" will be verified.

DID THE SUN EVER RISE IN THE WEST? (Vol. IV, p. 395) Did the sun ever rise in the West and set in the East as some claim, and is there any work on the subject?
WALDO.

The work entitled "New Astronomy," by P. E. Trastour, M. D., New Orleans, 1875, page, 44, says :

"The very moment in which the sun retrogrades to westward, beyond 0 of Libra, its rays will act immediately upon our globe in a contrary direction. The movement of the earth will be slackened, and decrease progressively in order to cease afterwards, without any disorder, by virtue of what the movements of our planet, are common to all the object which are on its surface. We can compare the discontinuance of its movement to that of a steamer which slackens more and more before ceasing to move.

Man will witness a celestial phenomenon very curious. When the earth will have stopped, the sun will be seen motionless and fixed in the same points of the heavens, and after that stationary state of some interval of time, just as the earth will resume little by little a contrary movement of rotation, they will see the sun moving again, but rising on the horizon instead of going down. The sun, the planets, the moon, and the stars will rise in the West, and will set in the East.

The day, in which that phenomena will take place, will be the longest of the period. There will be in that day two consecutive noons in the countries the meridians of which, the sun will have passed, and two consecutive midnights at the antipodes."

MALFATTI'S PROBLEM. (Vol. IV, p. 272.) The remarks on Malfatti's problem as printed in your magazine for April, I have observed, since their publication, need modifying somewhat. Though Prof. E. B. Seitz published his solution of it in four different magazines to my knowledge, he never intimated but what he was the discoverer of the beautiful formulæ elicited therefrom. I have no doubt but that he was, though some one else had arrived at exactly his results before him. It seems that these same formulæ were printed in Hymer's "Trigonometry," an English work published in 1847. As Prof. Seitz was born in 1846, he must have been too young to have elaborated these formulæ as number one. At that time he was probably engaged on the problem of *kinetic energy*, or *living force*, stored in nature's maternal fount.

In the year 1873, or 1874, Artémas Martin, LL.D., proposed in the *Educational Times* of London, the following problem :

"Find rational triangles whose sides, the radius of the inscribed circles, and the radii of Malfatti's circles, shall all be rational numbers."

On page 70 and 71, of Vol xxii, of the "Times Reprint," two solutions were published ; one by Mr. Martin and the other by Asher B. Evans, of Lockport, N. Y. Mr. Martin found the sides to be 231, 250, and 289 ; and the radii of Malfatti's circles $14\frac{1}{2}$, $46\frac{1}{3}$, $49\frac{1}{6}$. These mixed numbers may be reduced to integers by multiplying them and the sides alike by the least common denominator of the fractions. Prof. Evans found sides, 500, 616, and 676 ; and radii of Malfatti's circles, $33\frac{1}{2}$, $94\frac{1}{2}$, and $103\frac{5}{6}$; these may be reduced to integers as previously stated.

B. F. BURLESON, Oneida Castle, N. Y.

"TO SHOW THE WHITE FEATHER." (Vol. IV, p. 295.) Why is this expression used to show cowardice? D. M. DRURY.

Cadet John G. Berry, U. S. ship Juniata, writing from Port Stanley, Falkland Islands, says :

"Until then I did never realize what a wild goose chase means. Geese have a preference for flying to windward, and you always find yourself to leeward of every flock of geese you see ; so you have to make a detour of half a mile to get the weather gauge on them. Then you creep down until you get almost in gunshot of them ; when the nearest one shows the white feather, spreads his wings, runs along the ground a few steps, and then rising, flies directly away from you with all the others at his back. In unfolding his wings the goose shows a

row of white feathers, and since that expresses his intention to vanquish, I suppose this peculiarity gives rise to the expression, 'showing the white feather.'"

STEPHEN BERRY, Portland, Me.

JETHRO'S SEVEN NAMES. (Vol. IV. p. 347.) S.-Baring Gould, in his book, "Legends of the Patriarchs and Prophets," page 272, says that Jethro had seven names. What were they? READER.

McClintock & Strong's "Cyclopædia," Art. *Jethro* says his name in Hebrew is Yithro ("excellence" or "gain"); is often written Jether ("abundance"); the Septuagint version has it Iothor ("priest or prince." Several writers Reuel (Ex. 11, 18), the same as Raguel (Num. x, 29); Josephus (Ant. 11, 12, 1), remarks that Raguel "had Jothor for a surname." The form Jethro is abbreviated from Jethron. The Midrash says he had seven names (another version says eight):

1. Jethro, because he heaped up good deeds.
2. Cheber, because he was a friend of the Lord.
3. Chobeb, because he was beloved by the Lord.
4. Reuel, because he was a companion to the Lord.
5. Petuel, because he freed himself from idolatry.
6. Jether, because he had an abundance.
7. Iother, because of his excellence.

The Arabians called him Shoaib, and have a variety of traditions concerning him. Mohammed termed him "The preacher of the prophets," because he instructed Moses.

ELDER TRIPTOLEMUS TUB. (Vol. III, p. 76.) Can any reader give me information of a book written by "Elder Triptolemus Tub?" J. J. J.

The title of the book asked for is "Adventures of Elder Triptolemus Tub, comprising important and startling disclosures concerning Hell; its magnitude, morals, employments, climate, etc., all very satisfactorily authenticated. To which is added the Old Man of the Hill-side." 16mo., pp. 197, Boston, 1854. Elder Tub was a Virginian, exactly five feet high, and his diameter, when lying on his back, was two and one-half feet. He says, "Nature made *two* Triptolemus Tubs of the same length, breadth, and thickness." His book is full of satire on the prevailing religions of the world. His motto is, "Honesty, first last, and midst." He gives the reader permission "to believe all that may strike him as true, and to reject the remainder."

"FIFTH MONARCHY MEN." Who are the persons known by the term *Fifth Monarchy Men* ?

ARTHUR HILL.

A universal monarchy, which, in the belief of a strange religious sect in England, in the time of the Civil War and the Protectorate, was to succeed the fall of the Roman Empire, the fourth of the four great monarchies of Antichrist marked out by the prophet Daniel. This monarchy, it was believed, was to be given into the hand of the saints of the Most High ; and, under it, all the forms of violence, and suffering hitherto attendant upon the governments of this world were to cease. In other words it was to be the kingdom of Christ on earth. But it was to be set up with the sword, and the usual worldly expedients were to be employed for the purpose of securing partisans. It is said that they actually proceed to elect Jesus Christ king at London. In politics, the fifth monarchy men were republicans of the extreme views, and they conspired to murder the Protector and revolutionize the government. Cromwell dispersed them in 1653.

SUFISM. What are the new principles or doctrines more recently being introduced called *Sufism* ?

ARTHUR HILL.

Sufism is the doctrines of a mystical sect having their head-quarters in Persia. They are very strong in numbers. The name is derived from *Sophia* (wisdom), and they call themselves *Philosaufts*. They claim to possess the secret doctrines of Mohammed. There are four stages, or degrees, to pass through :

1. Preliminary—the candidate being enjoined to observe the ordinary rites and ceremonies of his religion, the interior meaning of which is unknown to the multitude.

2. Spiritual—in which a philosophical meaning is given to religion.

3. Wisdom—when the initiate is supposed to have attained supernatural knowledge, and to be nearly equal to the angels.

4. Truth—implying complete union with the Deity.

In each stage there are secrets and mysteries which it is considered a crime to reveal. There are many points where the Order of Ishmael and the disciples of Sufism are almost identical ; indeed, many members of the former Order belong to the Philosaufts, and are also members of the Masonic Brotherhood. C. W. King, in his admirable work on "The Gnostics and Their Remains," says, page 185 :

"Inasmuch as these *Sufi* were composed exclusively of the learned among the Persians and Syrians, and learning at that time meant lit-

tle more than a proficiency in medicine and astrology, the two points that brought the Eastern sages into amicable contact with their barbarous invaders from the West, it is easy to see how the latter may have imbibed the secret doctrines simultaneously with the science of those who were their instructors of all matters pertaining to science and art. The Sufi doctrine involved the grand idea of one universal creed which could be secretly held under any profession of an outward faith ; and in fact took virtually the same view of religious systems as that in which the ancient philosophers had regarded such matters."

THE TRIADS. (Vol. III, p. 102.) The triads are mentioned in the last volume of your magazine. I am led to ask if other series of triads were common in the ancient religions ? J. P. SHIELDS.

There are a large number of triads in the ancient writings connected with the religious systems. The following are some of those mysterious co-existences of three deities which will be found interesting in unravelling ancient religions, symbolisms, mythological systems, and astrology :

1. Egypt—Osiris, Isis, and Horus.
2. Orphic Mysteries—Phanes, Uranus, and Chronus.
3. Zoroasterianism—Ormuzd, Mithras, and Ahriman.
4. Hindu—Brahma, Vishnu, and Siva.
5. Cabiric Mysteries—Axieros, Axiokersos, and Axiokersa.
6. Phœnicia—Ashtarothe, Milcom, and Chemosh.
7. Tyre—Belus, Venus, and Tammuz.
8. Greece—Zeus, Poseidon, and Hades.
9. Rome—Jupiter, Neptune, and Pluto.
10. Eleusis—Iacchus, Persephone, and Demeter.
11. Platonic Mysteries—Tagathon, Nous, and Psyche.
12. Celtic—Hu, Ceridwen, and Creiwy.
13. Teutonic—Fenris, Midgard, and Hela.
14. Gothic—Woden, Frigga, and Thor.
15. Scandinavia—Odin, Vile, and Ve.
16. Mexico—Vitzliputzli, Tlaloc, and Tezcatlipoca.

DERIVATION OF THE NAME "BENGOUGH." Can any reader of NOTES AND QUERIES help me to the *derivation* of my name ? I am a spelling reformer, and fonetic journals urge that I should spel the name Bengof. This I decline to do till I know more certainly that *gof* would indicate correctly the pronunciation of the last syllable. Are not all the letters needed,—that is, is not the sound the Scotch guttural, and are not therefore all the letters of *ough* required to record the awkward sound ? Is the origin of the name Scotch, Welch or Irish ? THOS. BENGOUGH, Toronto, Canada.

EARLY PORTRAITS OF CHRIST. Years ago the writer saw a picture with this inscription: "The only true likeness of our Saviour, taken from one carved on an emerald, by command of Tiberius Cæsar, and given from the treasury of Constantinople by the emperor of the Turks to Pope Innocent VIII, for the redemption of his brother, taken captive by the Christians." Further search discovered the same picture associated with different incidents, and led to the study of the pictorial conceptions of our Lord to sacred art.

In the time of Christ superstition had suppressed all pictorial Jewish art even in portraiture, and, though skillful and ingenious in all else, no Jew dared to paint a portrait, and no strict one would even allow his own to be painted, for fear of a violation of the second commandment. Portraiture was therefore almost exclusively in heathen hands, and, consummate as was Greek art in painting the faces and forms of men, it had small scope in that little Syrian province of the Roman world, where a painter was an outcast. The first pictures of Christ were probably the work of his own disciples, and gradually, as those who loved Him desired to see His face with the eye of sense, the less scrupulous gnostic, with their ruder form of Greek art, repeated again and again some prototype well-known to them, but unknown to us.

Very early in Christian history—as early, indeed, as we have any history outside of the gospels—there was some well-known ideal, and many copies, though varying among themselves, distributed among the Oriental churches, in Asia and Africa, not always the same in every detail, but so uniform in general, that they were distinguished at sight. The earliest known historical mention of such works, though only incidental, is made by Tertullian (born A. D. 160), who criticises a picture of Jesus as "incorrect," and "wanting in resemblance." This implies that there was a correct type, which a true picture should resemble. Nothing better illustrates the number and antiquity of such pictures than the fact that the earliest ecclesiastical historian Eusebius, in 343, speaks of them as very plenty and some of them already very ancient, and associated with traditions of miraculous origin. Augustine, in the next century, speaks of "a variety of numberless pictures," and alludes to some of them as ancient.

THE COTTLE CHURCH. For more than forty-eight years printed papers have been sent about in the name of Elizabeth Cottle. It is not so remarkable that such paper should be concocted as that they should circulate for such a length of time without public attention. One hundred and eight years ago, Mrs. Cottle might have outrivalled Lieut. Brother, or Joanna Southcott. Long hence, when the now current volumes of our journals are well-ransacked works of reference, those who look into them will be glad to see this feature of our time: I therefore make a few extracts, faithfully copied as to type. The Italic is from the New Testament; the Roman is the requisite interpretation;—

Robert Cottle "*was numbered (5195) with the transgressors*" at the back of the Church in Northwood Cemetery, May 12, 1858—Isa LIII. 12. The Rev. J. G. Collinson, Minister of St. James's Church, Clapham, the then district church, before All Saints was built, read the funeral service *over the Sepulchre wherein never before man was laid.*

Hewn on the stone, "at the mouth of the Sepulchre," is his name,—Robert Cottle, born at Bristol, June 2, 1774; died at Kirkstall Lodge, Clapham Park, May 6, 1858. *And that day (May 12, 1858,) was the preparation* (day and year for "the PREPARED place for you")—Cottleites—by the widowed mother of the Father's house, at Kirkstall Lodge—John XIV, 2, 3. *And the Sabbath* (Christmas Day, Dec. 25, 1859) *drew on* (for the resurrection of the Christian body on "the third [Protestant Sun] day"—1 Cor. XV, 35). *Why seek ye the living* (God of the New Jerusalem—Heb. XII, 22; Rev. III, 12) *among the dead* (men): *he* (the God of Jesus) *is not here* (in the grave), *but is risen* (in the person of the Holy Ghost, from the supper of "the dead in the second death" of Paganism). *Remember how he spake unto you* (in the church of the Rev. George Clayton, April 14, 1839). *I will not drink henceforth* (at this last Cottle supper) *of the fruit of this* (Trinity) *vine, until that day* (Christmas Day, 1887), *when I* (Elizabeth Cottle) *drink it new with you* (Cottleites) *in my Father's Kingdom*—John XV. *If this* (Trinitarian) *cup may not pass away from me* (Elizabeth Cottle, April 14, 1839), *except I drink it* ("new with you Cottleites, in my Father's Kingdom"), *thy will be done*—Matt. XXVI. 29, 42, 64. "Our Father which art (God) in Heaven," *hallowed be thy name, thy* (Cottle) *kingdom Come, thy will be done in earth, as it is* (done) *in* (the new) *Heaven* (and new earth of the new name Cottle—Rev. XXI, 1; III, 12).

"MAIDEN." Here is a sentence of thirty-two words, which some ingenious child has constructed with just the letters found in Maideu: "Ida, a maiden, a mean man named Ned Dean, and Media, a mad dame, made me mend a die and dime, and mind a mine in a dim den in Maine."

New Books, Pamphlets, etc., Received.

TALKS FOR THE TIMES. By Rev. Joseph Wild, pastor of Bond-St. Congregational Church, Toronto, Canada. 12mo. pp. 345 cloth. This is a discussion of some present scientific, theological, and political questions of modern times; interesting to all who are inquiring as to coming events. Subjects of discussion are The Lost Tribes, The Rainbow, Liberalism, Miracles of Antichrist, How to get Rich, Transit of Venus, Graft without a Stock, Return of the Jews, "144," etc.

NATURAL LAW IN THE BUSINESS WORLD. By Henry Wood. Lee & Shepard, publishers, Boston, Mass. 12mo. pp. 222. An inquiry into the laws which seem to govern the fluctuations of business and control the complex movements and relations of modern industry. Exposes many fallacies of the reformers of various modern movements.

THE NEW CHRISTIANITY. An appeal to the Clergy and to all men in behalf of its life of Charity, pertaining to diseases, their origin and cure; the use of intoxicants as beverages and for sacramental purposes; the use of tobacco and opium; the pernicious and destructive habit of women, and the abuse of children; and the prevailing cruel treatment of girls and young women. By John Ellis, M. D. New York. 12mo. pp. 111. "The first [essential] of charity is to look to the Lord, and shun evils because they are sins; which is done by repentance. The second [essential] of charity is to do good [works] because they are uses."—SWEDENBORG.

SEVEN DOZEN GEMS. Compiled by John P. Thorndike, Manchester, N. H. 12mo. cloth. The book is a gem of gems, containing nearly a hundred of sparkling poems culled from the rich fields of poesy. We never grow weary of "Building upon the Sand," "Cato on Immortality," "Cleopatra Dying," "How wonderful is Man," "Morituri Salutamus," "Nearer to Thee," "Thanatopsis," "The Little Grave," "The Spirit of Nature," "Twice Born," and many other of like spirit and sentiment.

CAPTAIN GLAZIER AND HIS LAKE. An inquiry into the history and progress of exploration at the head-waters of the Mississippi since the discovery of Lake Itaska. By Henry D. Harrower. Ivison, Blake-man & Co., New York. 8vo. pp. 58.

TRUE MANHOOD. A sermon delivered at North Troy, Vt., the first Sunday in Lent, February 27th, 1887. By Rev. Joseph Hooper, Pastor of St. Augustine's Church, with other memorials of Col. O. N. Elkins. Newport, Vt 8vo. pp. 53. From J. M. Currier, M. D.

THE TRUE DOCTRINE OF ORBITS. An original treatise on Central Forces. By H. G. Rush, of New Danville, Penn. 8vo. pp. 133.

"I do not know what I may appear to the world, but to myself I seem to have been only like a boy playing on the seashore, and diverting myself with now and then finding a smoother pebble or a prettier shell than ordinary, whilst the great ocean of truth lay all undiscovered before me."

The author of this book says that the creation of this book is owing to a chain of those fortuitous circumstances to which science and art are indebted for so many of their treasures. In the face of prejudices the author has vividly pictured to himself the ridicule which will be his portion if he fails to establish his propositions. He is confident, however, that the correctness of his conclusions will be admitted. He says that an original investigation of the "Problem of Lights," conducted some seventeen years previous to the publication of his "True Doctrine," resulted in a series of conclusions which has suggested this work. His demonstrations are illustrated with diagrams and he invites a close observation of the mathematical results.

We have not had time as yet to follow through the demonstrations of the author's propositions and cannot at this writing give our judgment of his conclusions, but shall examine his theory farther as it deserves. All new doctrines should be examined and all newly discovered truths recognized. The author will send the book for 50 cents, and will no doubt be glad to receive any criticisms. The book should be examined thoroughly by professional men.

THE LADY OF DARDALE, and other Poems. By Horace Eaton Walker. Manchester, N. H., Browne & Rowe, publishers. 8vo. pp. 608. cloth. Portrait of author. Dedicated to America with a poem of fourteen stanzas. The author, born in Claremont, N. H., Aug. 9, 1852, was Burns-like destined to a poetic existence in the then coming years. The published volume of "Lady's Cabinet of Polite Literature," 1808, was the star-book of his inspiration, and he commenced his poetic strains early in life. But only in 1886 did he collect the poem, and they are here brought out in a handsome octavo volume for his admirers and for preservation. The book contains 268 poems, illustrated with 23 cuts and portraits. The leading poem covers 123 pages and holds the reader to the end. The entire volume has the true poetic inspiration and will take its place in future among the far-famed volumes of gems of this and other countries.

THE TEMPLE REBUILT. By "Vincit, qui se vincit," a Rosicrucian at the Metropolitan College, London, Eng. An address of 34 pages of grand thoughts on great subjects relating to-soul-truths. Every student of mystic lore should read it. From the author.

THE ORBIS PICTUS. By John Amos Comenius. This book is, indeed, the first children's picture book. A new edition of 500 copies, on large paper, price \$3.00, is now being published by C. W. Bardeen, Syracuse, N. Y. 8vo. Early orders are solicited. The cuts are unusually clear copies of the copper-plates of the first edition of 1658, from which is also taken the Latin text. The text for the English translation is from the English edition of 1727. If this enterprise proves a success to the publisher, he will bring out also an edition of the "Vestibulum" and "Janua," by the same author.

ON THE METHODS OF OBSERVING VARIABLE STARS. By S. Chandler, Jr. 12mo. As an easy mode of communicating such suggestions, now frequently asked for, this pamphlet, which was originally prepared for the *Science Observer*, nearly ten years ago, is now reprinted. From Prof. B. A. Gould, editor and proprietor of the *Astronomical Journal*, Cambridge, Mass. (For terms, see cover).

CARPENTER'S JUVENILE JINGLES. By William Carpenter, author of "One hundred Proofs that the Earth is not a Globe." Part I, The "Old Organ Grinder." 8vo. pp. 16. 1223 Chew St., Baltimore, Md.

THE WESTERN ANTIQUARY. Note Book of Devon, Cornwall, and Somerset. Containing original articles, Notes, Queries, and Replies. Illustrated. Edited by W. H. K. Wright, F. R. Hist. Soc., F. S. Sc., Borough Librarian, Plymouth, England. Monthly; quarto. Annual subscription, seven shillings; superior edition, ten shillings; postage, one shilling extra. Specimen numbers sent to subscribers who desire to make the journal known to their friends, or to any address. Volumes IV, V, VI, and VII (Parts 1, 2, 3, 4, & 5), received from the editor.

CARPENTER'S "FOLLY." A magazine of fact. Monthly. Fifty cents a year. Motto—"Prove all things, and hold fast that which is good." Devoted to the theory that the earth is flat. William Carpenter, editor and publisher, 1223 Chew St., Baltimore, Md.

THE ARYA MAGAZINE. Devoted to Arya philosophy, art, science, literature, religion and Yoga Vidya, embracing the views and opinions of the Aryans on social, religious, and scientific subjects. Edited by R. C. Bary. Annual subscriptions, Rs. 2-8-0; Foreign, 5 shillings; Single copies in India, As. 4. Address R. C. Bary, Said Mitha Bazar, Lahore, Punjab, India. Americans can address Thomas M. Johnson, Osceola, St. Clair Co., Missouri.

THE BUDGET. Devoted to mental and moral culture, and the entertainment of its readers. Monthly; quarto. Terms, \$1.25 a year. Address BUDGET, Box, 382, Marysville, Cal.

SEVENTY LESSONS IN SPELLING. A complete collection of difficult common words, with definitions and pronunciations; also, an appendix containing rules for the use of capital letters, and a list of abbreviations. Arranged for the use of Business Colleges, Academies, High Schools, &c. 12mo. pp. 132. Supplied by William Heron, Jr., Principal of the Business College, Manchester, N. H.

EXERCISES IN ENGLISH SYNTAX. By A. G. Bugbee. (School Bulletin Publications.) C. W. Bardeen, publisher, Syracuse, N. Y. A work of great assistance in the Regents' Preparatory grade. Give a pupil a few weeks of thorough review in analysis and then begin the Exercises. A Key will follow this work in due time.

SPIRITUAL HEALING FORMULA AND TEXT-BOOK. By A. J. Swarts, Chicago, Ill. A succinct and logical statement, also a strong argument in proof of the claim that "All is Spirit." The words for silent treatment and the other particulars for Christian spiritual healing are clearly stated. 8vo. pp. 54. limp.

THE PHYSICAL NATURE OF THE EARTH. A new philosophy of Light. An entire new theory and explanation concerning the origin and nature of sunlight, and light in general, and its physiological effects in nature. By Christ. B. Sanders, A. M., M. D., Houston, Tex.

THE PLATONIST. A Exponent of Philosophic Truth. Esoteric Christianity is identical with True Philosophy. "Platonism is immortal because its principles are immortal in the Human Intellect and Heart." This monthly octavo magazine is now in its third volume, and is edited by Thomas M. Johnson, Osceola, St. Clair County, Missouri. Terms, \$2.00 a year, in advance.

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