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DR. R. GREY'S /

MEMORIA TECHNICA,

OR METHOD OF

ARTIFICIAL MEMORY,

Applied to and exemplified in

CHRONOLOGY,		GEOGRAPHY,
HISTORY,		ASTRONOMY.

ALSO,

JEWISH, GRECIAN, AND ROMAN COINS,
WEIGHTS, MEASURES, &c.

TO WHICH ARE SUBJOINED,

LOWE'S MNEMONICS

DELINEATED,

IN VARIOUS BRANCHES OF LITERATURE AND SCIENCE.

A NEW EDITION, CORRECTED.

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PREFACE.

IT may be proper to acquaint the reader with what improvements have been made in this work since its first publication. In the tables of the patriarchs and ancient kings, care has been taken to signify, with the utmost brevity, the relation which every person bore to his immediate predecessor. In the geographical part, besides the adding of many remarkable places both in ancient and present geography, the memorial lines for the general and particular divisions have many of them been formed anew, with particular regard to the situation of the respective kingdoms, provinces, or countries into which those divisions have been made; so that every line is in some measure the epitome of a map. The tables of ancient coins, weights, and measures have been carefully reviewed, and very much augmented; and decimal tables subjoined, of great use for the more speedy and exact reduction of them. There is likewise added an Index of the historical, chronological, and geographical words; of the usefulness of which is given an account in the proper place. Besides these, there are several alterations and additions of less moment, interspersed throughout the whole; such as either my own experience or the judgment of my friends had suggested to me, in order to render the design more useful. I shall not trouble the reader with the reasons of them, which, if he compares the editions, he will very probably find out himself: nor do I think it necessary to apologize for having made them, since it could not be expected that an invention of this kind

should be so perfect at first, as not to be capable of being considerably improved. And I was the more willing to bestow some care and pains upon it, and to give it what improvement I was able, in return for the favourable reception it has met with from the public, beyond what was expected by myself or others. An Art of Memory has by many been looked upon as a thing either in itself impracticable, or, at least, in the common methods of it, useless and trifling. And I was sensible that the following method would lie under the additional disadvantage of a whimsical and out of the way appearance; besides that, the seeming difficulty of it at first sight would, I foresaw, deter many from so much as attempting to make themselves masters of it. Notwithstanding these discouragements, it has had the good fortune to give some satisfaction, and to meet with some success; and will, I hope, continue to be looked upon as an useful help to those who delight in reading, and would retain what they had read with faithfulness and accuracy, particularly in such points wherein their memories are most likely to fail them.

The objections which have been made to it from the difficulty of remembering the memorial lines would most effectually be removed by habituating young minds to them betimes, by the frequent transcribing and repetition of them. The technical words would by this means become natural and familiar, and of no small advantage to them in the course of their future studies; they would be easily received and long retained. But I shall say no more upon this point, having already touched upon it in the Introduction; to which also I refer the reader for what might further be expected by way of Preface.

INTRODUCTION.

IT is a general complaint amongst men of reading, and to many a discouragement from it, that they find themselves not able to *retain* what they read with any certainty or exactness. And in no part of literature is there greater room for this complaint than in *History*: to the studying of which with pleasure and improvement, as nothing contributes more, so nothing has been thought more difficult to be *retained*, than a distinct and accurate knowledge of *Chronology* and *Geography*. Upon this account several attempts have been made to remedy, in some measure, the defects of the memory, by chronological and geographical tables, cuts, and maps, and by reducing the principal parts of history to certain epochas or æras, so disposed and contrived, as may be most likely to affect the imagination, and make the deeper impression upon the mind. Thus Mr. Hearne, in his *Ductor Historicus*, has reduced the whole compass of chronology to thirteen grand epochas, all beginning with the letter C. Dean Prideaux, in his *Introduction to History*, has made use of the number seven, throughout his whole book; “not out of affection (as he tells us) but experience, as *most easy for the memory* ;” with others of the like nature, which serve at least to shew that the memory wants assistance, and that small helps are better than none. But of all the inventions made use of for this end, none has been found to contribute more to the assistance of the memory than that of *technical verses*; both as they generally contain a great deal in a little compass, and also because being once learned, they are seldom or never forgot. For the truth of which I may venture to appeal to the weakest memories, whether they have

not to the last found themselves in possession of that ever-memorable line,

Barbara Celarent Darii Ferio Baralip-ton.

Of this nature is the following method; the design of which is, not to make the *memory better*, but *things more easy to be remembèred*; so that by the help of it, an ordinary, or even a weak memory, shall be able to retain what the strongest and most extraordinary memory could not retain without it. For, as he, who first contrived to assist the eye with a telescope, did not by that pretend to give sight to the blind, or make any alteration in the eye itself, but only to bring the objects nearer, that they might be viewed more accurately and distinctly; so neither is it pretended ^a by this art to teach those to remember every thing who never could remember any thing; or to make men in an instant skilful in sciences which before they were utterly unacquainted with; but only to enable them to retain, with *certainty* and *exactness*, what they have already a general and competent knowledge of: that they may not be obliged upon every occasion to have fresh recourse to their books or maps, or be under the tiresome necessity of reading the same things again and again, still forgetting them as fast as they read them.

To those who may object, of what use is it to be thus exact, and content themselves with an imperfect and confused remembrance of what they read; it might be answered, that such as think it of no use, need not, as I presume they will not, trouble themselves about it; this being designed for the benefit of those only who think it is of use; and who, even at the expence of a little pains, would remember if they could: but, besides this, I believe it will be agreed on all hands, that to instance in history only, a man who *has* an exact notion of time and place, finds incomparably

^a Hæc ars tota habet hanc vim, non ut totum aliquid cujus in ingeniis nostris pars nulla fit, pariat et procreet; verum ut ea, quæ sunt orta jam in nobis et procreata, educat atque confirmet. *Cicero de Oratore*, lib. ii. edit. C. Steph. p. 182.

more pleasure, and makes a speedier progress in that study, than he who *has not*.

I shall here beg leave to transcribe a passage from ADDISON'S *Dialogues, upon the Usefulness of Ancient Medals*: "There is one advantage, says Eugenius, " that seems to me *very considerable*, which is the " great help to memory one finds in medals: for my " own part, I am very much embarrassed in the " names and ranks of the several Roman emperors, " and find it difficult to recollect upon occasion the " different parts of their history: but your medallists, " upon the first naming of an emperor, will imme- " diately tell you his age, family, and life. To re- " member where he enters in the succession, they only " consider, in what part of the cabinet he lies; and " by running over in their thoughts such a particular " drawer, will give you an account of all the remark- " able parts of his reign."

If this be such a *considerable advantage* in medals, I hope it will be allowed that the following method is of some use, since by it a man may be enabled to remember when any emperor, from Julius Cæsar to Jovian, began his reign, and that as readily as you can name him, by the help of no more than *seven memorial lines*. The like he may do, with the same ease and readiness, by the kings of England, and so proportionably for any other part of sacred or profane history. For, how impracticable soever it may seem at first view, I have reason to believe, that any reader of a common capacity may, by a regular proceeding and ordinary application, be able readily and exactly to answer *most*, if not *all*, the questions that can be proposed, from the following tables.

The manner in which I would advise him to proceed (after having premised that he must not be too hasty at first, but make himself^b master of one thing

^b Assumendus usus paulatim, ut pauca primum complectamur animo quæ reddi fideliter possint: mox per incrementa tam modica ut onerari se labor ille non sentiat, augenda usu et exercitatione multa continenda est, quæ quidem maxima ex parte memoria constat. *Quintilianus*, lib. x. edit. Gibson. Ox. p. 534.

before he proceeds to another, beginning with such particulars as he has most occasion or inclination to retain) is this. First, let him learn to *explain* the several *memorial lines*, according to the method hereafter to be laid down, by consulting the tables to which they belong. 2. This done, let him, by looking upon the tables, learn to make out the lines; and 3. Let him charge his memory with them, by *frequent repetition*. By this means the words will become *familiar*, how harsh and uncouth soever they may appear at first; and he will find it as easy to know the diameter, distance, and magnitude of any planet; the particular time or age of any remarkable person or thing; the longitude and latitude of any place, and the like, as it is to remember their *names*: the whole art being in effect nothing more than this; *to make such a change in the ending of the name of a place, person, planet, coin, &c. without altering the beginning of it, as shall readily suggest the thing sought, at the same time that the beginning of the word, being preserved, shall be a leading or prompting syllable to the ending of it so changed.*

I would willingly here let the reader a little more into my meaning, which he may not otherwise so readily apprehend, lest he should think there is more difficulty in the matter than there really is. I would ask him, then, if he thinks he could remember to call CYRUS, *Cyruts*; DANIEL, *Daniull*; ALEXANDER the Great, *Aléxita*; JULIUS Cæsar, *Julios Cæsar*; or MAHOMET, *Máhomaudd*. If he can but do this, he has nothing else to do (when he is once master of the general key, and knows what letters of the alphabet stand for what figures) in order to remember, without any possibility of being mistaken, that the years in which Cyrus, Alexander, and Julius Cæsar founded their respective monarchies, were as follow:

	Before Christ
CYRUS [<i>Cyruts</i>]	536
ALEXANDER [<i>Aléxita</i>]	331
JULIUS Cæsar [<i>Julios</i>]	46

And that the Mahometan æra, or flight of Mahomet,

was A. D. 622.—In like manner for Geography. Does he think he could remember to call MADRID *Madroy-t*, or JERUSALEM *Jeruta-ts*, or BLENHEIM *Blenhebav*, or THESSALY *Thessjan*? This is all that is required, to remember that the degree of latitude of Madrid is about 40, and the longitude about 3. The latitude of Jerusalem about 31, and the longitude 36; that Blenheim is in *Bavaria*, and that what was the ancient *Thessaly* is the present *Janna*. Thus the reader will observe, that all that he has to do, is for one word to remember another, which only varies from it a little in the *termination*^d. And to make even this easier to be remembered, the *technical* words are thrown into the form of common Latin verse, or at least of something like it. For as there was no necessity to confine myself to any rules of *quantity* or *position*, I hope I need make no apology for the liberty I have taken in having, without regard to either, and perhaps now and then without so much as a regard to the just number of feet, only placed the words in such order as to make them run most easily off the tongue, and succeed each other in the most natural manner. But this by the way for the reader's encouragement.

In the mean time, till he can repeat the *memorial lines*, and to those who are not willing to give themselves any trouble at all in charging their *memory* with them, the *tables* themselves will not be without their use; of which it may be expected that I should give some account.

^c The reader is presumed to be so far acquainted with geography, as to be able to tell which is eastern and which is western longitude, when he is informed that the first meridian is fixed at London.

^d In many words the variation is very small: as K. John K. *Jann*, INACHUS *Inakus*, SOLON *Solun*, HERODOTUS *Herodofus*, PLATO *Platok*, TRAJAN *Trajanck*, CLEOPATRA *Cleopatla*, GORDIAN *Gordin*, the battle of MARATHON *Marathonz*, ATTLA *Attifla*, CRÆSUS *Cræsuse*, AUSTIN *Austins*, &c. Those which appear more difficult will be full as easy, when familiarised by use.

For the chronology and history I have chiefly consulted ^cArchbishop Usher's Annals, Marshall's Chronological Tables, the *Rationarium Temporum* of Petavius, Mr. Hearne's *Ductor Historicus*, and Bishop Beveridge's *Institutiones Chronologicae*. The succession of the Assyrian and Babylonian Monarchs, the Kings of Persia, Media, Syria, Egypt, &c. are taken from Dr. Prideaux's Chronological Tables, at the end of his Connection; the times of the flourishing of the Fathers, Heretics, Councils, &c. from Dr. Cave's *Historia Literaria*. The Roman Emperors, and the time of writing of the canonical books of the New Testament, from Mr. Eachard's Roman and Ecclesiastical Histories. The Legatine and Provincial Constitutions from Bishop Gibson's *Codex Juris Ecclesiastici*. The astronomical calculations are from Dr. Derham's Astro-Theology. I have also added Mr. Whiston's, from his Theory of the Earth. In the geographical part, my chief guide has been Dr. Wells's Treatise of Ancient and Present Geography, whose Maps may be consulted by the learner. For the coins, weights, and measures, I have chiefly been obliged to Dr. Arbuthnot's books and tables, not without consulting Bishop Cumberland, Dr. Bernard, and Bishop Hooper, and other writers upon that subject, of whom I have made what use I thought convenient. If any prefer other authors, who differ from these, they may easily apply the art to their favourite author, by a change of the words, according to the method laid down. And, indeed, when the reader is perfectly master of it, he would do well to form words for his own use, which perhaps he will sooner remember than those which I had formed for mine; my design being rather to give a specimen of what might be done by

^c It may be some satisfaction to the reader to know, that Mr. Bedford (as he tells us in the Preface to his Scripture Chronology) *never* differs from Dr. Prideaux; and even from the creation of the world to the destruction of Jerusalem, never above five years from Archbp. Usher, the late Bishop of Worcester, or Mr. Marshall.

it, than a set of *complete* tables in the respective sciences. If some think I have been deficient in leaving out what they think worthy of remembering, others perhaps will think I have been too full. To both these I answer, that I impose no task upon my readers, nor desire to prevent their own improvements: they may add what they please, and pass by what they please. Nor do I think it at all necessary that they should be able to answer *every* particular in the following tables; only this I may venture to affirm, that if they once charge their memory with them, they will find them no burden, and that it is not only practicable, but easy to be done.

It is not to be expected that gentlemen, who have gone through the course of their studies, will trouble themselves to begin again anew, and go regularly through the *whole*; but it is submitted to those who have the education of young students in the universities and public schools, whether it would not be of some service towards facilitating the progress of their pupils and scholars in useful knowledge, to have them early and thoroughly acquainted with this small treatise. It is the advice of Quintilian, that boys should be used to repeat, as fast as possible, harsh and crabbed words and verses, purposely made difficult, in order to give them a more full and articulate pronunciation. His words are these: *Non alienum fuerit exigere ab his ætatibus, quo sit absolutius os et expressior sermo, ut nomina quædam versusque affectatæ difficultatis, ex pluribus asperrime coëuntibus inter se syllabis catenatos et veluti confragosos quam citatissime volvant.* The frequent repetition of the following memorial lines would certainly answer *this* end, and at the same time a *much better*; and if I might also recommend, as he does, the *writing* of them too, in order to make the deeper impression, it would doubtless have a good effect, and boys would be treasuring

‡ Institutiones Orat. edit. Gibson. Oxon. p. 12.

up learning even before they were aware of it. ^g *Illud non pœnitebit curasse cum scribere nomina puer (quem-admodum moris est) cœperit, ne hanc operam in vocabulis vulgaribus et forte occurrentibus perdat. Protinus enim potest interpretationem linguæ secretioris quam Græci γλώσσαις vocant, dum aliud agitur, ediscere, et inter prima elementa consequi rem postea proprium tempus desideraturam.* It may be sufficient to have just hinted these things to those whose more immediate province it is, and who are best qualified to judge what methods may most effectually contribute to the improvement of those under their care.

From the account I have given of it, the reader will observe, that the method here proposed is perfectly different from that of Simonides the Cean^h, so famous among the ancients for being the first inventor of an art of memory, ⁱ of whom both Tully and Quintilian speak with respect, and of whose method of ^k *places and images* (i. e. of having a repository

^g Quintil. Institutiones Orat. edit. Gibson. Oxon. p. 12.

^h Σιμωνίδης ὁ Λεωπρέπης, ὁ Κεῖος, ὁ ΤΟ ΜΝΗΜΟΝΙΚΟΝ ΕΥΡΩΝ, ἐνίκησεν Ἀθήνησιν διδάσκων, καὶ αἱ εἰκόνες ἐσάθησαν Ἀρμόδιε καὶ Ἀριστογείτονος, ἔτη ΗΗ.—Marm. Arund. i. l. 70.

De Simonide hoc vide Joannem Tzetzem, Chiliade i. cap. 24. Ubi victorias reportasse ait quinquaginta sex. Consule etiam Valerium Maximum, lib. iv. cap. 7.

ⁱ Non sum tanto ego, inquit, ingenio quanto Themistocles fuit ut oblivionis artem quam memoriæ malim; gratiamque habeo Simonidi illi Ceio quem primum ferunt artem memoriæ protulisse. *Cicero de Oratore*, lib. ii.

^k Constat artificiosa memoria locis et imaginibus, &c. *Cicero ad Herennium*, lib. iii. edit. Car. Steph. p. 30.

Loca discunt quam maxime spatiosa, multa varietate signata, domum forte magnam, et in multos diductam recessus. In ea quicquid notabile est animo diligenter affigitur, ut sine cunctatione ac mora partes ejus omnes cogitatio possit percurrere.—

—Tum quæ scripserunt, vel cogitatione complectuntur, et alio signo quo moneantur, notant. Quod esse vel ex re tota potest, ut de navigatione, militia: vel ex verbo aliquo. Nam etiam excidentes, unius admonitione verbi in memoriam reponuntur: sit autem signum navigationis, ut anchorá; militiae, ut aliquid ex armis. Hæc itaque digerunt: primum sensum vel locum vestibulo quasi assignant, secundum atrio, tum impluvia circumeunt, nec cubiculis modo aut exedris, sed stratis etiam similibusque per

of ideas, a large house, or the like, divided into several apartments, in each of which you are to place in order a symbolical representation of the things which you would remember) they have given us a very full and particular account, as also of the occasion which first gave rise to it. What improvements have been made of this method by some modern authors, or in what manner or with what success others have set up to teach privately the art of memory, I am altogether ignorant. Having found my own method sufficient for myself, I had no inclination to look after any other. What use it may be of to the public, must be left to experience. The novelty of it may perhaps recommend it to the inquisitive and curious; and I desire nothing more than that into whose hands soever it may fall, they would not be prejudiced against it upon the account of its *seeming difficulty*, before any have made *trial* of it; being inclined to think, that to any one, who is at all acquainted with it, it will be found to be so far from being *really* difficult, that nothing can be more easy, or more obvious. The representation of numbers by letters of the alphabet hath been a thing in practice, more or less, almost in every language. The only thing wanting was to make that representation further useful, by substituting vowels, as well as consonants, for the numerical figures, in such manner and proportion, that any number might be formed into a word capable of being articulately pronounced, and consequently more perfectly remembered. Amongst the Jews indeed, of whose alphabet the vowels are no part, it was a practice, not only to abbreviate sentences and names of many words, by putting together the initial letters of those words, and making out of them an

ordinem committunt. Hoc facto, cum est repetenda memoria; incipiunt ab initio loca hæc recensere, et quod cuique crediderunt, repossunt, et eorum imagine admonentur, &c. *Quintiliani Institutiones Orat.* lib. xi. edit. Gibson. p. 561.

*artificial word*¹ to express the whole; but also to make use of *natural words*, to represent numbers, when they could meet with such as happened to answer the number they wanted to express. We have several pieces of ingenuity of this kind in the frontispieces of their Bibles, where they give us the *year* of the edition in some word or sentence of Scripture, the letters of which, according to their numerical value, make up the date. I have subjoined^m some of them for the entertainment of the learned reader, from Bishop

¹ As *Rambam* for R-abbi M-oses B-en M-aimon; *Rilbag* for R-abbi L-evi B-en G-erson; *Maccabees*, from the abbreviation of the words in the standard of Judas Maccabæus, M-i C-amoka B-aëlim J-ehovah, i. e. *Who is like unto thee amongst the gods, O Lord!* See Prideaux's Connection, part ii. book 3. Of this nature is what the reader will meet with in the beginning of the geographical part of this method, page 48, &c.

^m Sed non omittendum est, Judæos in librorum præcipue titulis, ad annum quo impressi sunt indigitandum, literas numerales alio atque quem tradidimus ordine collocare. Enimvero vocem unam vel plures, easque vel seorsim, vel in sententia aliqua Biblica comprehensas excogitant, quarum literæ utut dispositæ numerum propositum valeant. Ex. gr. In Bibliis Sacris a Josepho Athia Amstelodami editis, tria occurrunt frontispicia, unum ad Pentateuchum, ad Prophetas alterum, tertium ad Hagiographa. Primum impressum dicitur שנת לשני עט ספר מהיר לפק Anno computi minoris *lingua mea est stylus scribæ prompti.* Ps. xlv. Ubi voces עט ספר ut virgulis superne notatæ annum indigitant quo Pentateuchus impressus fuit. Quotus autem fuit annus computi Judaici minoris statim inveniatur, si omnes vocum instarum literæ una cum numerico earum valore ita disponantur, ע 70 ט 9 ס 60 פ 80 ך 200. = 419. Ergo annus erat 419 juxta computum Judæorum minorem, de quo videsis chronologicas nostras institutiones, Sic et prophetæ impressi dicuntur כשנת משא גי חזין לפק Anno *Onus vallis visionis* computi minoris. Is. xxii. Ubi literæ חזין משא גי valent 420. Frontispicium autem ad כתובים sive Hagiographa impressum est anno כתובים באצבע אלהים scripta Digito Dei, ubi primæ duæ literæ vocis כתובים annum eundem 420 significant. Nam ת valet 400, et כ 20. Hunc etiam in modum Talmud Basileæ impressum dicitur שנת פדות שלה לעמי Anno *redemptionem misit populo suo.* Ps. cxi. Ubi literæ vocis שלך valent 338. Denique Seder Tephilloth Hispaniensis

Beveridge's *Arithmetiæ Chronologica*. And indeed I am not certain whether I owe not to observations of this kind, the first hint of this method, which I have carried so far, and which doubtless, like all other inventions, is still capable of further improvements.

What is added of the miscellany kind, is a small part of what I had drawn up for my own use, and shews how easily this art may be applied to almost every part of learning. If upon the whole this attempt shall be found to contribute to the more speedy attainment of useful knowledge, and to give men of reading, instead of an imperfect and confused remembrance of what they read, a satisfactory certainty and exactness, as I cannot think the little time I have spent upon it ill bestowed in respect of my own improvement, so I shall be glad that it proves of as much benefit to others as I have found it to myself.

sive Judæorum Hispanorum liturgia ingeniosissime impressa
dicitur **תשנת ה'א"ג** Hoc Anno, i. e. Anno 413, quem literæ
תשנת indigitant. Lib. i. c. 6. p. 211, 212. 4to. 1669.



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APPENDIX, 187.



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MEMORIA TECHNICA.

These letters are assigned arbitrarily to the respective figures, and may very easily be remembered. The first five vowels in order naturally represent 1, 2, 3, 4, 5. The diphthong *au*, being composed of *a* 1 and *u* 5, stands for 6; *oi* for 7, being composed of *o* 4 and *i* 3; *ou* for 9, being composed of *o* 4 and *u* 5. The diphthong *ei* will easily be remembered for *eight*, being the initials of the word. In like manner for the *consonants*, where the initials could conveniently be retained, they are made use of to signify the number; as *t* for three, *f* for four, *s* for six, and *n* for nine. The rest were assigned without any particular reason, unless that possibly *p* may be more easily remembered for 7 or *Septem*, *k* for 8 or *ὀκτώ*, *d* for 2 or *duo*, *b* for 1, as being the first consonant, and *l* for 5, being the Roman letter for 50, than any others that could have been put in their places.

The reasons here given, as trifling as they are, may contribute to make the series more readily remembered; and if there was no reason at all assigned, I believe it will be granted that the representation of nine or ten numerical figures by so many letters of the alphabet, can be no great burthen to the memory.

The series therefore being perfectly learned, let the reader proceed to exercise himself in the formation and resolution of words in this manner:

10	325	381	1921	1491	1012	536	7967
<i>az</i>	<i>tel</i>	<i>teib</i>	<i>aneb</i>	<i>afna</i>	<i>bybe</i>	<i>uts</i>	<i>pousoi</i>
431	553	680	&c.				
<i>fib</i>	<i>lut</i>	<i>seiz</i>	&c.				

And as, in numeration of larger sums, it is usual to point the figures at their proper periods of thousands, millions, billions, &c. for the more easy reading of them, as 172,102,795, one hundred seventy-two millions, one hundred two thousand, seven hundred ninety-five; so, in forming a word for a number consisting of many figures, the syl-

lables may be so conveniently divided, as exactly to answer the end of pointing. Thus, in the instance before us, which is the diameter of the orbit of the earth in English miles, the *technical* word is *Dorbtérboïd-áze-poul*; the beginning of the word, *Dorbtér*, standing for the diameter of the orbit of the earth, (*D-iiameter ORBITÆ TERRÆ.*) and the remaining part of it, *boïd-áze-poul*, for the number 172,102,795.

N. B. Always remember that the diphthongs are to be considered but as *one letter*, or rather, as representing only *one figure*. Note also, that *y* is to be pronounced as *w* for the more easily distinguishing it from *i*, as *syid*=602, pronounce *swid*, *typ*=307, pronounce *twip*.

The reader will observe, that the same date or number may be signified by different words, according as vowels or consonants are made choice of, to represent the figures, or to begin the words with, as,

325 *tel*, or *idu*, 154 *buf*, or *blo*, or *alf*, or *alo*, 93,451 *ni-ola*, or *out-sub*, or *ni-fla*, or *out olb*, &c.

This variety gives great room for choice, in the formation of words, of such terminations as by their *uncommonness* are most likely to be remembered, or by any *accidental relation* or *allusion* they may have to the thing sought. Thus the year of the world in which Æneas is supposed to have settled in Italy in 2824; but as this may be expressed either by *ekef* or *deido*, I choose rather to join *deido* to Æneas, and make the technical word *Ænedeido* than *Ænekef*, for a reason which I think is obvious. Thus King John began his reign A. D. 199, (one thousand being understood to be added, as I shall shew hereafter;) but as this may be expressed by *anou*, or *boun*, or *ann*, I make choice of the last, for then it is but calling him *Jann* instead of John, and you have the time almost in his name. Thus Inachus King of Argos began his reign in the year before Christ 1856; with a very small variation in the spell-

ing, it is his name *Inakus*. More instances of this kind see in page vi. of the Introduction.

To go on with our art: it is further to be observed, that *z* and *y* being made use of to represent the cypher, where many cyphers meet together, as in 1000, 1000000, &c. instead of a repetition of *azyzyzy*, which could neither be easily pronounced nor remembered, *g* stands for hundred, *th* for thousand, and *m* for million. Thus *ag* will be 100, *ig* 300, *oug* 900, &c. *ath* 1000, *oth* 4000, *otho* or *othf* 4004, *peg* 7200, *dig* 2300, *lath* 51000, *am* 1000000, *azmoth* 10.004,000 *sumus* 65.000,056, *loun* 59.000,000, &c. The solid content of the earth (*TERRÆ MAGNITUDO*) is two hundred sixty-four thousand, eight hundred fifty-six millions of cubic miles; this is expressed by the word *Termagnit-éso-klaum*; *Termagnit* standing for *TERRÆ MAGNITUDO*; *éso-klaum* for 264,856.000,000, the number of cubic miles

It will be sometimes also of use to be able to set down a fraction, which may be done in the following manner: let *r* be the separatrix between the numerator and the denominator, the first coming *before*, the other *after* it; as *iro* $\frac{3}{4}$: *urp* $\frac{5}{7}$: *pourag* $\frac{79}{100}$ or ,79: *north* $\frac{94}{1000}$ or ,094 &c. Where the numerator is 1, or unit, it need not be expressed, but begin the fraction with *r*, as $\frac{1}{2}$ *re*, $\frac{1}{3}$ *ri*, $\frac{1}{4}$ *ro*, &c. So in decimals, ,01 or $\frac{1}{100}$, *rag*, ,001 or $\frac{1}{1000}$, *rath*.

Thus I have given the reader a general view of the principal part of this method, and now proceed to shew how I have applied it to history, geography, astronomy, and other parts of useful learning; and, having explained a line or two in each, leave the rest to his own industry and sagacity; and though the geographical parts are not, in this edition, completely modernized, according to the present divisions of the earth, neither are the recent discoveries in astronomy noticed here; yet it is hoped that sufficient is done to answer the student's purpose.

SECTION II.

The Application of this Art to Chronology and History.

THE ages of the world before our Saviour's time are by chronologers generally divided into six: the first, from the creation to the deluge; the second, from the deluge to the call of Abraham, &c. according to the following periods:

	Bef. Christ
1. The Creation of the world	4004
2. The universal DELUGE	2348
3. The call of ABRAHAM	1921
4. Exodus, or the departure of the Israelites } from Egypt	1491
5. The foundation of Solomon's TEMPLE	1012
6. CYRUS, or the end of the captivity	536
The birth of Christ.	

All this is expressed in one line belonging to TAB. I. as follows:

Crothf, Déletok, Abaneb, Exáfna, Témbybe, Cyruts.

Cr denotes the Creation, *othf* 4004, Del the Deluge, Ab the calling of Abraham, Ex Exodus, Tem the Temple, and Cyr Cyrus. The technical endings of each represent the respective year according to the rules already laid down.

I shall explain two lines more.

Nicsilcon-áritel, Codathé-mateib, Ephcethe-nésfib.

Chállemar-eudíola, Covijúst-Olut, C-ágcopo-monseiz.

These two lines are a short history of the first six General Councils; and every syllable has its distinct signification. The *first* represents the place where it was held: the *second* shews who was pope at that time; the *third* under what emperor; the *fourth* against what heretic; the *fifth*, in what year of our Lord. Thus the first word is *Nicsilcon-áritel*:

Nic denotes the Council of Nice, sil Pope SILVester, con the Emperor Constantine, ari the heretic ARIUS, *tel* the year 325. The second word is Codathé-mateib; Co denotes the Council of Constantinople, da Pope DÁmasus, the the Emperor THEodosius, ma the MACedonians, *teib* 381. The third is Ephcethe-nésfib; Eph the Council of EPHe-sus, ce Pope CElestine, the the Emperor THEodosius, junior, nes the NESTorians, *fib* the year 431. The fourth is Chállemar-eudíola; Chal the Council of CHALcedon, le Pope LEO, mar the Emperor MAK-cian, eudi the errors of Eutyches and Dioscorus, *ola* the year 451. The fifth is Covijúst-Olut; Co stands for Constantinople, vi Pope Vigilius, just the Emperor JUSTinian, O the errors of Origen, *lut* the year 553. The sixth is C-ágcopo-monseiz; C stands again for Constantinople, ag for Pope AGatho, copo the Emperor Constantine Pogonatus, mon the MON-othelites, *seiz* the year 680.

By this specimen the reader will be able to judge what he is to expect from the following Essay, and what it will cost him to make himself master of it. I would by no means have him discouraged at the difficulty which, at first view, he may apprehend there is, in charging his memory with so many harsh and barbarous lines; for, though they may appear to be so to a person unacquainted with them, and, as such, difficult to be remembered, yet when frequent repetition has made them familiar, what can be more easy than to supply the remaining part of a word, which you are prompted with the beginning of? as, for instance, to complete Cr— Del— Ab— Ex— Tem— Cyr— with their technical endings, and make them up into the following lines, already explained,

Crothf, Déletok, Abaneb, Exáfna, Témbybe, Cyruts.

I have only further to desire the reader to take notice, that for his greater ease, that part of the memorial words, which represents the numbers or

CHRONOLOGICA ET HISTORICA.

dates, is distinguished by *Italic* characters; that part which is *Roman* answers to the small capitals in the tables.

TABLE I.

General Epochas and Æras, Ecclesiastical and Civil.

	Bef. Christ
The Creation of the world [<i>Crothf</i>]	4004
The universal DELUGE [<i>Déletok</i>]	2348
The call of ABRAHAM [<i>Abaneb</i>]	1921
Exodus of the Israelites [<i>Exáfna</i>]	1491
The foundation of Solomon's TEMPLE [<i>Témbybe</i>]	1012
CYRUS, or the end of the captivity [<i>Cyruts</i>]	536
The birth of Christ.	
The destruction of TROY [<i>Tróyabeit</i>]	1183
The first OLYMPIAD [<i>Olympois</i>]	776
The building of ROME [<i>Romput</i>]	753
ÆRA of NABONASSAR [<i>Ærnabonáspop</i>]	747
The PHILIPPIC æra, or the death of Alexander [<i>Phíldo</i>]	} 324
The æra of CONTRACTS, or of the Seleucidæ, called in the book of Maccabees the æra of the kingdom of the Greeks [<i>Contractad</i>]	} 312
A. D.	
The DIOCLESIAN æra, or the æra of Martyrs [<i>Diocleseko</i>]	} 284
The æra of the Hegira, or flight of MAHOMET [<i>Máhomaudd</i>]	} 622
The æra of YEZDEGIRD, or the Persian æra [<i>Yezsid</i>]	} 632

The Memorial Lines.

Crothf, *Déletok*, *Abaneb*, *Exáfna*, *Témbybe*, *Cyruts*.
Tróyabeit, *Olympois*, *Romput* & *Ærnabonáspop*.
Phíldo, *Contractad* + *Diocléseko*, *Máhomaudd*, *Yezsid*.

THOUGH I have no where (except in the ages of the patriarchs before Abraham) made use of any other æra than that of the years before and after Christ, because those being known, it is easy to find the correspondent year of any other æra, according to the common rules laid down in books of chronology, which I shall suppose the reader to be acquainted with ; yet, in the more eminent epochas, that he may be able, at first glance, to have a notion of the time of any thing or person which he may meet with in authors making use of the Julian period and the æra of the creation of the world, I have also added them in the following table.



TABLE II.

	Jul. Period.	An. M.
The CREATION of the world	710	1
The universal DELUGE	2366	1656
The call of ABRAHAM	2793	2083
EXODUS of the Israelites	3223	2513
The foundation of Solomon's TEMPLE	3702	2992
CYRUS, or the end of the captivity	4178	3468
The destruction of TROY	3531	2821
The first OLYMPIAD	3938	3228
The building of ROME	3961	3251
The birth of CHRIST	4714	4004

The Memorial Lines.

Créppaz, Delpétsau, Dèmasus, Abmezki, Ànpépnì.
 Expidet, Exmélat, Tempipze, Temmène, Cymúntosk.
 Cyrpoboik, Troypíltà, Trómekeb, Olympinik, Olmléek.
 Rompinsa, RómíduB, Chrismúndothf, Chrisperifoibo.

EXPLANATION.

The first syllable points out the epocha as before ; the addition of *p* or *peri* denotes that it is the year of the Julian period ; the addition of *m* or *mund*, that it is the year of the world.



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	Bef. Christ
ZOROASTRES appears at the Persian court [Zoroafne]	} 492
ESTHER made concubine to Ahasuerus [Esthosa]	} 461
The feast of PURIM instituted in memory of the defeat of Haman's plot for the destruc- tion of the Jews [Purolt]	} 453
EZRA sent to be governor of Judæa [Ezrolk]	} 458
NEHEMIAH sent governor to Judæa, rebuilds the walls of Jerusalem [Nehemiffu]	} 445
The temple on Mount GERIZIM began to be built by Manasseh [Gerizózei]	} 408
The translation of the SEPTUAGINT [Septepoi]	} 277
Judas Maccabæus [Jumass]	} 166

The Memorial Lines.

Bábedit & Mizdakk, Sódakoup, Joséphasil, AnSafff.
Sauláznu, Jéronoil, Salmpeb, Holoféslu, Ninévsad.
Jehoíasys, Zedleik, [duravit Isrelo, Judosk.]
Babdárhylas, Sardug, Zoroafne, Esthosa, Purolt.
Ezrolk, Nehemiffu, Gerizózei, Septepoi, Jumass.

TABLE IV.

*Chronological and Historical Miscellanies after
Christ.*

	After Christ
DISPERSIO JUDÆORUM, or the destruction of Jerusalem by Titus [Dis-judpa]	} 71
LUCIUS of Britain, the first Christian king [Lúcibup]	} 157
ZENOBIA Queen of Palmyra led in triumph to Rome by Aurelian [Zenobdoid]	} 272
ECCLESIAE PAX, or the establishment of Chris- tianity by Constantine [Ecclesi-pax!ad]	} 312
St. ALBAN the British Protomartyr [Albantyt]	} 303
CLOVIS the first Christian king of France [Clóvoka]	} 481
LINGUA LATINA, or the Latin tongue ceases to be commonly spoken in Itály [Ling-latlleip]	} 587

	After Christ
AUGUSTINE the monk, sent by Gregory the Great from Rome, converts <i>ÆTHEL</i> bert King of Kent [Aug-ethelúnau]	} 596
CHARLEMAGNE declared Emperor of the West [Charlmeig].	} 800
The <i>CROISADE</i> , or Holy War [Croisáznu]	1095
HYBERNIA, or the conquest of Ireland [Hyb- aboid]	} 1172
ORTOMAN the founder of the present Turkish empire [Ottadoup]	} 1297
The mariner's COMPASS found out [Compatze]	1302
The PAPAL seat removed to Avignon [Pap-avatyl]	1305
Walter LOLLARD with many of his followers burnt in Austria, for opposing the Romish superstitions [Lolatub]	} 1351
GUNPOWDER invented in Germany by a monk [Gunpátfo].	} 1344
TAMERLANE the Tartar overcomes BAJAZET the Turk, and puts him in an iron cage. (The Great Mogul is descended from him.) [Tambajatóun Mog.]	} 1399
SCANDERBERG Prince of Epirus famous for his victories over the Turks [Scanderboft]	} 1443
The invention of PRINTING [Prinafon]	1449
CONSTANTINOPLE taken by the Turks, and an end put to that empire [Constantinobóli]	} 1453
CHRISTOPHER COLUMBUS, a native of Genoa, discovers Cuba and Hispaniola [Columbont]	} 1493

N. B. The southern continent of America was discovered about four years after by Americus Vesputius, from whom it took its name.

The Memorial Lines.

Dis-judpa, Lúci-bup, Zenobdoid, Ecclesi-paxtud.
 Albantyl, Clóvoka, Ling-lattleip, Aug-ethelúnau.
 Charlmeig, Croisáznu, Hybaboid, Ottadoup, Compatze.
 Pap-avatyl, Lolatub, Gunpátfo, Tambajatóun [Mog.]
 Scanderboft, Prinafon, Constantinobóli, Columbont.

TABLE V.

The Regal Table of England since the Conquest, and some of the most remarkable Princes before it.

	Bef. Christ
CASIBELAUNUS chosen chief commander by the Britons against the invasion of Julius Cæsar [Casibelud]	} 52
	Aft. Christ
Queen BOADICEA, the British heroine, being abused by the Romans, raises an army and kills 7000 [Bóadaup]	} 67
VORTIGERN invited the Saxons to the assistance of the Britons against the Scots and Picts [Vortigfos]	} 446
HENGIST, the Saxon, erected the kingdom of Kent, the first of the heptarchy [Hengful]	} 455
King ARTHUR famous for his powerful resistance and victories over the Saxons [Arthlaf]	} 514
EGBERT, who reduced the heptarchy, and was first crowned sole monarch of England [Egbekek]	} 828
ALFRED, who founded the University of Oxford [Alfrékpe]	} 872
CANUTE the Dane [Canbau]	1016
Edward the CONFESSOR [Confésfe]	1042
WILLIAM the CONQ. [Wil-coñsau]	Oct. 14. 1066
William RUFUS [Rufkoi]	Sept. 9. 1087
HENRY I. [Henrag]	Aug. 2. 1100
STEPHEN [Stephbil]	Dec. 2. 1135
HENRY the SECOND [Hensécbuf]	Oct. 25. 1154
Richard I. [Ricbein]	July 6. 1189
John [Jann]	April 6. 1199
HENRY the THIRD [Hethdas]	Oct. 19. 1216
Edward I. [Eddoid]	Nov. 16. 1272
EDVARDUS SECUNDUS [Edsetyp]	July 7. 1307
EDVARDUS TERTIUS [Edterles]	Jan. 25. 1326

+ Richardus secundus [Risetóip]	June 21. 1377
Henry the fourth [Hefotoun]	Sept. 20. 1399
Henry the fifth [Hefifúd]	Mar. 20. 1412
Henry the sixth [Hénsifed]	Aug. 31. 1422
Edvardus quartus [Edquarfauz]	Mar. 4. 1460
+ Edward the fifth } [Efi-Rokt] {	April 9. 1483
Richard III. }	June 22. 1483
Henricus septimus [Hensépfeil]	Aug. 22. 1485
Henricus octavus [Henoclyn]	April 22. 1509
* Edvardus sextus [Edsexlos]	Jan. 28. 1546
MARY [Marylut]	July 6. 1553
Elisabeth [Elsluk]	Nov. 17. 1558
JAMES I. [Jamsyd]	Mar. 24. 1602
* CAROLUS PRIMUS [Caroprimsel]	Mar. 27. 1625
CAROLUS SECUNDUS [Carsecsok]	Jan. 30. 1648
JAMES II. [Jamseif]	Feb. 6. 1684
William and Mary [Wilseik]	Feb. 13. 1688
Anne [Anpyb]	Mar. 8. 1701
George I. [Gëobo]	Aug. 1. 1714
George II. [Gëosecdoi]	June 11. 1727
George III. [Gëothpauz]	Oct. 25. 1760
George IV. [Gëoquarkez]	Jan. 29. 1820

The Memorial Lines.

Casibelud, Bóadaup, Vortigfos, Héngful & Arthlaf.
Egbekek, Alfrékpe, Canbau, Confésfe.

Wil-consau, Rufkoi, Henrag. —————

Stephil & Hensécbuf, Ricbein, Jann, Hethdas & Eddoid.

Edsetyp. Edtertes, Risetóip, Hefotoun, Hefifádque.

Hénsifed, Edquarfauz, Efi-Rokt, Hensépfeil, Henoclyn.

Edsexlos, Marylut, Elsluk, Jamsyd, Caroprimsel.

Carsecsok, Jamseif, Wilseik, Anpyb, Gëobo—doi—pauz—
kez.

N. B. After Canute inclusive, one thousand is to be added to each. It was thought unnecessary to express it, it being a thing in which it is impossible that any one should mistake.

If it be desired to remember in what month, and day of the month, each king began his reign, it may be done by the following lines:

Wil-tbó-sou-fat, Steph-de, Jam-chef-fau, Ri-ls-jeb-ed,
El-nap.

Hen-gé-tel-an-sez-chez-gib-ged-ped, Geor-ga-jab, An-
chei.

Car-chep-riz, Ma-ls, Jo-ps, Ed-nás-loi-rél-cho-pou-
rekque.

EXPLANATION.

The *italic* letters represent the day of the month; the letter immediately preceding represents the month itself, r standing for January, f for February, ch for March, p for April, m for May, j for June, l for July, g for August, s for September, t for October, n for November, and d for December.

Thus Steph-de, Steph King Stephen, de, Dec. 2. El-nap, El Elizabeth, nap Nov. 17. In words of three or more syllables, the first syllable stands for all the kings of the same name, and the following syllables in order to answer to the first, second, third, &c. of that name. So Jam-chef-fau; Jam denotes James I. & II. chef (viz. March 24.) belongs to James I. and fau (viz. Feb. 6.) to James II. So Ri-ls-jeb-ed; Ri denotes all the Richard, ls (viz. July 6.) belongs to Richard I. jeb (viz. June 21.) to Richard II. and ed (viz. 22. of the same month) to Richard III.

If this be thought either too difficult or too minute, the reader may pass it over.

TABLE VI.

Chronological Miscellanies since the Conquest.

Jerusalem regained from the Turks and Godfrey of Bulloigne made king of it [Godbulnou]	After Christ } 1099
The Inquisition first erected against the Albigenses [Inquised]	} 1222
The confirmation of Magna Charta by King Henry III. [Charteel]	} 1225

•WAT TYLER's rebellion suppressed [Tyltka]	1381
JACK CADE's rebellion suppressed [Cadeſty]	1450
MARTIN LUTHER begins to preach in Germany against indulgences, and other errors of the Church of Rome [Mar-luthlap]	} 1517
The name of PROTESTANTS first began on oc- casion of the protestation the Lutherans made against the decree of the Chamber of Spire against them [Protalen]	
The SMALCALDAN league, or agreement made between the Protestants of Germany for their mutual defence at Smalcald [Smalcalloz]	} 1540
The Council of TRENT began Dec. 13. [Tren-decat-alfu]	
The MASSACRE of Protestants at PARIS [Mas- paraloid]	} 1572
The UNITED provinces under the protection of William, Prince of Orange, throw off the Spanish yoke [Un-ploin]	
The Spanish INVASION [Sp-invukk]	1588
The GUNPOWDER treason [Powdsyl]	1605
The famous rebellion at Naples, on occasion of the grievous excises, headed by MASA- NIELLO [Masanielsop]	} 1647
Oliver CROMWELL usurps the government of England under the name of Protector [Cromsli]	
The island of JAMAICA in America taken by the English [Jamaicau]	} 1655
CROMWELLI MORS [Crom-morsuk]	
GIBRALTAR taken (capta) by the English [Gib- rapzo]	} 1704

The Memorial Lines.

God-bulnou, Inquised, Charteel, Tylíka, Cadeſty.
Mar-luthlap, Protalen, Smalcalloz, Tren-decat-alfu.
Mas-paraloid, Un-ploin, Sp-invukk, Powdsyl, Masa-
nielsop.

Cromsli, Jamaicau, Crom-morsuk, capta Gibrapzo.

N. B. A thousand is to be added as above, where
it is not expressed.

TABLE VII.

The Patriarchs before and after the Flood.

	Anno Munc.	Age.
ADAM [Adniz]	1	930
SETH [Setháty-nad]	130	912
ENOS [Endil-nyl]	235	905
CAINAN [Caitel-naz]	325	910
MAHALALEEL [Mahalatoul-koul]	395	895
JARED [Jarósy-naud]	460	962
ENÓCH [Enchséd-isu]	622	365
METHUSELAH [Methuseíp-naun]	687	969
LAMECH [Lakoíf-poip]	874	777
NOAH [Noachazús-nuz]	1056	950
SHEM [Shembulk-aug]	1558	600
ARPHAXAD [Arasleí-fik]	1658	438
SALAH [Salasout-ott]	1693	433
HEBER [Hebaped-óso]	1722	464
PELEG [Pelapúp-etou]	1757	239
REU [Reuapeíp-din]	1787	239
SERUG [Serakán-diz]	1819	230
NAHOR [Nahorakón-bok]	1849	143
TERAH [Terakoík-dyl]	1878	205
ABRAHAM [Abezyk-boil]	2008	175
ISAAC [Isebyk-beíz]	2108	180
JACOB [Jácobebaúk-bop]	2168	147

The Memorial Lines.

Adniz, Setháty-nad ———

———— Endil-nyl, Caitel-naz, Mahalatoul-koul.

Jarósy-naud ———

Enchséd-isu, Methuseíp-naun, Lakoíf-poip, Noach-azús-nuz.

Shembulk-aug, Arasleí-fik, Salasout-ott, Hebaped-óso.

Pelapúp-etou, Reuapeíp-din, Serakán-diz, Nahor-akón-bok.

Terakoík-dyl, Abezyk-boil, Isebyk-beíz, Jácobebaúk-bop.



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The Memorial Lines.

Séthikoif ———

Enosipaun, Caitspou, Mahalatsyn, Jarilof, Enchtike.
 Methusitap, Lamibiz, Noenok, Sheffs, Arphetos, Saldibb.
 Hébdeka, Pelégedop, Reúedop, Serúgdaku, Nahrdall.
 Terebes, Abrámanous, Isakous, Jakip, Levapusque.

TABLE IX.

The Judges of Israel, from the Death of Moses to Samuel.

	Bef. Christ
Moses moritur (dies) [Mos-mola]	1451
JOSHUA [Jóshfol]	1445
OTHONIEL [Othózu]	1405
EHUD [Ehutel]	1325
DEBORAH [Debodeil]	1285
GIDEON [Gidol]	1245
ABIMELECH [Abmets]	1236
THOLET [Thlett]	1233
JAIR [Jaïdaz]	1210
JEPHTA [Jephtakk]	1188
IBZAN [Ibzake]	1182
ELON [Eloboil]	1175
ABDON [Abdonaso]	1164
ELI [Elíbup]	1157
SAMUEL [Sambap]	1117

The Memorial Lines.

Mos-mola, Jóshfol, Othózu, Ehutel, Debodeil, Gidol,
 Abmets.

Thlett, Jaïdaz, Jephtakk, Ibzake, Eloboil & Elíbup.
 Abdonaso, Sambap ———

N. B. One thousand is to be added. The dates affixed to the Judges before Abimelech are supposed to relate, not to the beginning of their presiding over Israel, but to the end of the *rest* given by them.—
Vide the preface to *Petavii Rationarium*.

TABLE X.

Kings of all Israel.

	Def. Christ
SAUL [Saulaznu]	1095
DAVID [Davazul]	1055.
SOLOMON s. [Solomázal]	1015

The Defection of the Ten Tribes, 975.

Kings of Judah.

REHoboam s. [Rehonoil]	975
ABIJAM s. [Abínup]	957
ASA s. [Asanul]	955
JEHOSAPHAT s. [--hosaphanbo]	914
JEHORAM s. [--horkein]	889
AHAZIAH s. [Ahazikku]	885
ATHALIAH m. [Athlikko].	884
JEHOASH g. [--hoaashkoik]	878
AMAZIAH s. [Amazkin]	839
UZZIAH or AZARIAH s. [Uz- azarikby]	810
JOTHAM s. [Jothpuk]	758
AHAZ s. [Aházpod]	742
HEZEKIAH s. [Hezepep]	727
MANASSEH s. [Mansóut]	693
AMON s. [Amónsot]	643
JOSIAH s. [Josiasoz]	640
JEHOIAKIM s. [--hoiakimsyn]	609
JEHOIAKIN s. [--hoiakaug]	600
ZEDEKIAH u. [Zedekilnei]	598

Kings of Israel.

JEROBOAM son of Nebat [Je- robnoil]	975
N-adab s. [Nnuf]	954
BAASHA [Baarut]	953

	Bef. Christ
ELAH s [Elniz]	930
ZIMRI, TIBNI, and Omri [Zim- tibnen]	} 929
OMRI alone [Omnel]	925
АНАВ s. [Ahábnak]	918
АНАЗИАВ [Ahazikoup]	897
JORAM b. [Jorknau]	886
ЖЕУ [Jehukko]	884
ЖЕОАНАЗ s. [Jehoahaklau]	856
ЖЕОАШ s. [--hoashkin]	839
ЖЕРОБОАМ II. s. [Jerosekdu]	825
ZACHARIAH s. [Zacharappt]	773
SHALLUM son of Jabesh [Shai- luppe]	} 772
MENAHAM s. of Gadi [Menappe]	772
PEKAIH s [Pekaipsa]	761
PEKAH, [Pekapun]	759
Hosea s. of Elah [Hospiz]	730

The Memorial Lines.

Saulaznu, Davazul, Solomázal, Reho-jerobnoil.
 Abínup, Asanul, --hosaphanbo, --horkein, Ahazikku.
 Athlikko, --hoaashkoik; Amazkin, Uz-azarikby.
 Jothpuk & Aházpod, Hezepep, Mansút & Amónsot.
 Josiasoz, --hoiakimsyn, --hoiakaug, Zedekilnei.
 Nnuf, Baanut, Elniz, Zim-tibnen, Omnel, Ahábnak.
 Ahazikoup, Jorknau, Jehukko, Jehoahaklau.
 --hoashkin, Jerosekdu, Zacharappt, Shalluppe, Menappe.
 Pekaipsa, Pekapun, Hospiz. —————

N. B. The break before some of the words denotes that 'Je is wanting, as --hosaphanbo for Jehosaphanbo, --horkein for Jehorkein, &c.

TABLE XI.

The Prophets.

	Bef. Christ
JONAS prophesied against Nineveh [Jonkze]	802
JOEL prophesied [Joeig]	800

	Bef. Christ
AMOS prophesied against King Jeroboam [Ampeip]	787
HOSEA prophesies against Israel [Hosepku]	785
ISAIAH began to prophesy [Ispauz]	760
NAHUM prophesies against Nineveh [Náhupuk]	758
MICAH prophesies against Judah and Jerusalem [Micput]	} 753
JEREMIAH began to prophesy [Jersta]	631
ZEPHANIAH prophesied [Zephautz]	630
HABAKUK prophesied [Habasyn]	609
EZEKIEL in captivity had his first vision [Ezeloul]	595
OBADIAH prophesies against the Edomites [Obadilkoi]	} 587
DANIEL had his vision of the four empires [Dull]	555
HAGGAI prophesied [Haglez]	520
ZECHARIAH prophesied [Zecharúdz]	520
MALACHI writes his book, which was the end of vision and prophecy [Malachinp]	} 397

The Memorial Lines.

Jonkze, Joeig, Ampeip, Hosepku, Ispauz, Náhupuk.
 Micput, Jersta, Zephautz, Habasyn, Ezeloul, Obadilkoi.
 Dull, Haglez, -Zecharúdz, Malachinp —————

TABLE XII.

Kings of Assyria after the Dissolution of the ancient Assyrian Empire upon the Death of Sardanapalus.

	Bef. Christ
ARBACES [Arbapop]	747
SALMANESER s. [Salmpek]	728
SENNACHERIB s. [Sennachoibo]	714
ESARHADDON third s. [Esarhadopzau]	706

Kings of Babylon.

BELESIS [Belespop]	747
NADIUS [Nadpif]	734

	Bef. Christ
CHINZIRUS	} [Chi-Po-Jugpes] }
POrus	
JUGÆUS	
MARDOK EMPADUS [Empea]	726
ARKIAUUS [Arkpyu]	721
BELIBUS [Belibupze]	709
APRONADIUS [Apronaunn]	702
REGIBILUS [Regibsni]	699
MESSESIMORDACUS [Messoud]	693
	692

After his death followed an *inter-regnum* of eight years, of which Esarhaddon King of Assyria taking the advantage seized Babylon, and adding it to his former empire, thenceforth reigned over both for 13 years.

Kings of Assyria and Babylon jointly, the Royal Seat sometimes at Nineveh, and sometimes at Babylon.

	Bef. Christ
Esarhaddon, called in Ptolemy's Canon ASSAR-Addinus [Assarsky]	} 680
SAOSDUCHINUS s. [Saóssaup]	
CHYNILADANUS [Chynsop]	667
	647

Chyniladanus having made himself despicable to his people, Nabopollasar, general of his army, set up for himself; and being a Babylonian by birth, made use of his interest there to seize that part of the Assyrian empire, and reigned king of Babylon 21 years. And in the 14th year of his reign, having made an affinity with Astyages, the eldest son of Cyaxares, by the marriage of his son Nebuchadnezzar with Amyitis the daughter of Astyages, entered into a confederacy with him against the Assyrians, and thereon joining their forces together, they besieged Nineveh; and after having taken the place, and slain Saracus the king, (who was either the successor of Chyniladanus, or he himself under another name,) to gratify the Medes, they utterly destroyed that great and ancient

city, and from that time Babylon became the sole metropolis of the Assyrian empire. *Vule Prideaux's Connection*, Part I. Book I.

Kings of Babylon.

	Ref. Christ
NABOPOLLASAR [Nabopolset]	625
NEBUCHADNEZZAR s. [Nebsys]	606
EVILMERODOCH s. [Evillaub]	561
NERIGLISSAR b. in law [Neriglun]	569
• LABOROSOARCHOD s.	
NABONADIUS s. of Evilmerodoch	555
DARIUS the MEDE, i. e. Cyaxares, uncle of Cyrus, to whom Cyrus allowed the title of all his conquests as long as he lived [Dar-medlik]	538

By his taking of Babylon ended the BABYLONISH empire, after it had continued 209 years [Reg-Babylezou]

The Memorial Lines.

Arbapop & Salmpek, Sennachoibo, Esarhadopzau.
 Belespop, Nadpif, Chi-Po-Jugpes, Empea, Arkpyn.
 Belibupze, Apronaunn, Regibsni, Messoud, Assarsky.
 Saóssaup, Chynsop, Nabopolset, Nebsys, Evillaub.
 Neriglun, Nabolul, Darmedlik, Reg-Babylezou.

TABLE XIII.

Kings of Egypt^b.

	Ref. Christ
SABACON the Ethiopian [Sabacopdoi]	727
SEVECHUS s. [Sevpan]	719

^a For the reason why *Laborosoarchod* is not named in Ptolemy's Canon, see *Prideaux's Connection*, Part I. Book 2.

^b Of the ancient Kings of Egypt, from M-zraim or Menes, we have little else but the names, or fabulous accounts.

	Bef. Christ
TIRHAKAH, last of the Ethiopians [Tirhapyt]	} 705
Confederacy of the XII PRINCES [Prin-bé-skei]	
PSAMMITICHUS [Psammitspy]	} 670
NECUS s. [Necussas]	} 616
PSAMMIS s. [Psammaug]	} 600
APRIES s. [Aprunf]	} 594
AMASIS [Amaslaun]	} 569
PSAMMINITUS s. who was con- quered by Cambyses, son of Cyrus [Psamintlel]	} 525

*Kings of Media after the Revolt of the Medes from
Sennacherib.*

DEJOCES [Dejopzou]	709
PHRAORTES s. [Phraslau]	656
CYAXARES s. [Cyaxasif]	634
ASTYAGES s. [Astuno]	594
^c CYAXARES II. [Cy-d-lun]	559

Kings of Persia.

CYRUS [Cyruts]	536
CAMBYSES s. [Cambylen]	529
^d [OROPASTES MAGUS] Oro-mag	} 521
DARIUS, son of HYSTASPES [Dar- hystalda]	
XERXES s. by Atossa, daughter of Cyrus [Xerxoku]	} 485
ARTAXERXES LONGIMANUS third s. [Longfauf]	} 464

^c Cyaxares succeeded Astyages in the civil government, and Cyrus, grandson of Astyages, by his daughter Mandane, in the military government.

^d Herodotus calls him *Smerdis*; Ctesias, *Spendadates*; Æschylus, *Mardus*; and in Scripture he is called *Artaxerxes*.



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CYAXARES	DARIUS the mede, <i>Daniel</i> iii. 31.
SABAÇON	SO, <i>2 Kings</i> xvii. 4.
NECUS	Pharaoh NECHO, <i>2 Chr.</i> xxxv. 20.
TARACHUS	PIRHAKAH, <i>Isa.</i> xxxvii. 9.
APRIES	Pharaoh HOPHRAH, <i>Jer.</i> xliv. 30.
DEJOCES	ARPHAXAD, <i>Judith</i> i. 1.
ⁱ ARTAXERXES LONGIMANUS	} AHASUERUS, <i>Esther</i> ii. 16.
SALMANESER	
SENNACHERIB	SARGON, <i>Isaiah</i> xx. 1.
ASTYAGES	AHASUERUS, <i>Daniel</i> ix. 1.
SEVECHUS	SETHON, <i>Herodotus</i> 2.
SAOSDUCHINUS	^k NABUCHODONOSOR, <i>Judith</i> i. 1.
CAMBYSES	AHASUERUS, <i>Ezra</i> iv. 6.
SMERDIS	ARTAXERXES, <i>Ezra</i> iv. 7.

The Memorial Lines.

Arb-tig, Bel-bala-nab, Nabonad-belsh, Dar-m-cya,
 Sab-so,
 Dej-arphax, Apr-hoph, Empád-balad, Ass-esar-asnap,
 Sen-sarg, Salm-ene-shalm, Sev-seth, Saós-nabu, Smerd-
 art,
 Tirh-tara, Nech-necus, Art-long—Asty-ahas, Cam-
 ahasque.

TABLE XV.

Kings of Egypt and Syria, after the Death of Alexander the Great.

Kings of Egypt.

	Bef. Christ
Ptolemæus LAGUS or Soter, [Lagtyo]	304
Ptol. Philadelphus s. [Phadko or Phildeif]	284
Ptol. Evergetes s. [Eudos]	246
PTOL. Philopator s. [Ptol-pheeb]	221
PTOL. EPIPHANES s. [Ptol-epiphezo]	204

ⁱ Archbishop Usher thinks that Darius Hystaspes was the K. Ahasuerus that married Esther; Scaliger, that Xerxes was.

^k *Nabuchodonosor* was a name among the Babylonians, commonly given to their kings, as that of *Pharaoh* was among the Egyptians.

	Ref. Christ
Ptol. Philometor s. [Phombeiz]	180
Ptol. Physcon B. [Physcobfu]	145
Ptol. LATHYRUS s. [Lathyradz]	120
ALEXANDER n. [Alexanky]	80
Ptol. AULETES bastard s. of Lathyrus [Aulaul]	65
CLEOPATRA D. [Cleopatla]	51

Kings of Syria.

SELEUCUS Nicanor [Sél-nitad]	312
ANTIOCHUS Soter s. [Anti-sodoïn]	279
ANTIOCHUS THEOS s. [A-thedauz]	260
SELEUCUS CALINICUS s. [Sel-caldfu]	245
SELEUCUS CERAUNUS s. [Cerauneel]	225
ANTIOCHUS MAGNUS B. [Ant-magdee]	222
SELEUCUS Philopator s. [Sel-phaks]	186
ANTIOCHUS E-piphanes B. [An-Eboil]	175
ANTIOCHUS EUPATOR s. [Ant-éupaso]	164
DEMETRIUS S-oter s. of Seleucus Philopator } [Dem-Sáse]	162
ALEXANDER BALA [Al-balbuz]	150
DEMETRIUS Nicator son of Demetrius Soter } [D-nicafu]	145
ANTIOCHUS SIDETES B. [Sidétboz]	140
DEMETRIUS Nicator [D-nicaty]	130
ZEBINA [Zebbel]	125
ANTIOCHUS GRYPUS son of Demetrius Nicator } [Grypadi]	123
SELEUCUS s. [Seleucous]	96
PHILIP B. [Philipne]	92
TIGRANES King of Armenia [Tigráneit]	83

The Memorial Lines.

Egypt.

Lagtyo, Phadko, Eudos, Ptol-pheeb, Ptol-epiphezo,
Phombeiz,

Physcobfu, Lathyradz, Alexanky, Aulaul, Cleopatla.

Syria.

Sél-nitad, Anti-sodoïn, A-thedauz, Sel-caldfu, Cerauneel,
Ant-magdee, Sel-phaks, An-Eboil, Ant-éupaso, Dem-
Sáse,

Al-balbuz, D-nicafu, Sidétboz, D-nicaty, Zebbel,
Grypadi, Seleucous, Philipne, Tigráneit, —————

TABLE XVI.

*Jewish High Priests, &c. after the Return from
the Captivity.*

	Bef Christ
JESHUA son of Jozadack [Jeshúalis]	536
JOIAKIM s. [Joiakokt]	483
ELIASHIB s. [Elsholt]	453
JOIADAH s. [Joiadoat]	413
^l JOHANAN s. [Johanánipt]	373
JADdua [Jadutob]	341
ONIAS PRIMUS s. [On-prímida]	321
SIMON the just s. [Sim-jig]	300
ÉLEAZAR br. [Eleádna]	291
MANASSEH son of Jaddua, and uncle of } Simon the Just [Manásseps]	276
^m ONIAS II. son of Simon the Just [On-sduz]	250
SIMON II. (SECUNDUS) s. [Sim-secdap]	217
ONIAS tertius s. [On-tboul]	195
JASON br. [Jasboil]	175
MENELAUS br. [Ménelápe]	172
On the death of Menelaus, Alcimus was made high priest by Antiochus Eupator. After him, Jonathan, brother of Judas, was made high priest by Alexander Bala.	
JUDAS MACCABÆUS (s. of Mattathias, } descended from Asmonæus) captain of } the Jews [Ju-máccabass]	166
JONATHAN br. [Jónabauz]	160
SIMON MACCABÆUS [Si-macbot]	143
HYRCANUS s. [Hyrcau]	135
K. ARISTOBULUS s. [K-Arbys]	106
ALEXANDER JANNÆUS br. [Jannazu]	105
ALEXANDRA w. [Alxándroik]	78

^l Called also Jonathan. *Nehemiah* x. 11.

^m He being an infant at his father's death, Eleazar was made high priest.

	Ref. Christ
(ARISTOBULUS SECUNDUS younger s. K. } [Aristób-secaun])	69
HYRCANUS SECUNDUS elder br. H. P. } [Hyrca-secundsi]	63
ANTIGONUS younger son of Aristobulus } K. [Antigonáz]	30
HEROD son of Antipas K. [Herodíþ]	38
ARCHELAUS K. [Archelt]	3

The Memorial Lines.

Jeshúalis, Joiakokt, Elsholt, Joiadoat, Johanánipt,
Jadutob, On-primida, Sim-jig, Eleádna, Manásseps,
On-sdruz, Sim-secdap, On-tboul, Jasboil, Menelápe,
Ju-máccabass, Jónabauz, Si-macbot, Hyrcatu, K-Arbys,
Jannazu, Alxándroik, Aristób-secaun, Hyrca-secundsi,
Antigonáz, Herodíþ, Archelt ———

TABLE XVII.

Founders, &c. of ancient Monarchies.

	Ref. Christ
NINUS founder of the Assyrian monarchy } [Ninezlou]	2059
SEMIRAMIS wife of Ninus [Semanaul]	1965
SARDANAPALUS in whom ended the Assyrian } monarchy [Sardanpop or paup]	747 or 767
ÆGIALEUS, King of Sicyon [Ægialézkou]	2089
INACHUS, first King of Argos [Inakus]	1856
The OGYGIAN flood, under Ogyges King of } Attica [Ogygapaus]	1766
PROMETHEUS, son of Japetus, brother of Atlas } [Praskoi]	1687
CECROPS first King of Athens [Cecblus]	1556
SISYPHUS first King of Corinth [Sisyphálzo]	1504
TEUCER first King of Troy [Teucbrtzd]	1502
CADMUS first King of Thebes [Cadmáfno]	1494
SATURN expelled Crete by his son Jupiter, } settled in Italy [Satátty]	1330

	Bef. Christ
PERSEUS first King of Mycene [<i>Pérsatat</i>]	1313
HERCULES, son of Jupiter by Alcmena [<i>Herbdoif</i>]	1274
The ARGONAUTIC expedition [<i>Argóbdauþ</i>]	1267
OEDIPUS King of Thebes [<i>Oédibess</i>]	1266
THESEUS son of Ægeus [<i>Thesbdif</i>]	1234
ⁿ CODRUS the last King of Athens [<i>Codrázpa</i>]	1071
CABANUS first King of Macedon [<i>Carankaf</i>]	814
CANDAULES King of Lydia [<i>Candauptu</i>]	735
CRÆSUS King of Lydia [<i>Cræsúse</i>]	562
CYRUS, founder of the Persian empire [<i>Cyruts</i>]	536
ALEXANDER, founder of the Grecian empire [<i>Alexita</i>]	} 331
JULIUS CÆSAR, founder of the Roman empire [<i>Julos</i>]	} 46

The Memorial Lines.

Ninezlou, Semanaul, Sardanpop, Ægialézkou,
Inakus, Ogygapaus, Praskoi, Cecblus, Sisyphálzo,
Teucbuzd, Cadmáfno, Satáltty, Pérsatat, Herbdoif,
Argóbdauþ, Oédibess, Thesbdif, Codrázpa, Carankaf,
Candauptu, Cræsúse, Cyruts, Alexita, Julos.

TABLE XVIII.

Grecian History.

	Bef. Christ
The THEBAN war [<i>Thebadel</i>]	1225
First MESSENIAN war [<i>Messpot</i>]	743
Second MESSENIAN war [<i>Messku</i>]	685
Battle of MARATHON [<i>Marathónz</i>]	490

^a After the death of Codrus the Athenians had perpetual Archons, the first of which was MEDON [<i>Medazoiz</i>]	} 1070
Then decennial Archons, the first of which was CHAROPS [<i>Charoppuo</i>]	} 754
Then annual Archons, the first of which was CREON [<i>Creseiz</i>]	} 680

————— Medazoiz, Charoppuo, Creseiz.

	Bef. Christ
Battle of SALAMIS [Salamóky]	480
Battle of EURYMEDON [Eurymedopz]	470
The PÆLOPONNESIAN war [Pelofib]	431
Battle of LEUCTRA [Leucratpi]	373
Battle of MANTINEA [Mantisi]	363
PHOCÆAN or sacred war [Phocilp]	357
Battle of the River GRANICUS [Granitif]	334
Battle at the ISSUS [Isstit]	333
Battle of ARBELA [Arbtib]	331
ALEXANDER the Great succeeds Philip [Alextis]	} 336
Philip ARIDÆUS [Aritet]	323
Alexander ÆGUS [Ægltas]	316

The Memorial Lines.

Thebadel & Messpot, Messku, Marathónz, Salamóky,
Eurymedopz, Pelofib, Leucratpi, Mantisi, Phocilp,
Granitif, Isstit, Arbtib, Alextis, Aritet, Ægltas.

N. B. After the death of Alexander there arose great confusion among his Generals about the succession, each seizing what he could for himself, till by leaguings and making war against each other, they were, after some years, all destroyed except four. These were Cassander, Lysimachus, Ptolemy, and Seleucus, who divided the whole empire.

CASSANDER had MACEDON and GREECE.

LYSIMACHUS had THRACE and those parts of Asia situated upon the Hellespont and the Bosphorus.

PTOLEMY had Æ-gypt, LIBYA, A-rabia, PALESTINE, and Cœlo-SYRIA.

SELEUCUS all the rest of Asia, &c.

The Memorial Line.

Cáss-magre, Lys-thrachebos, Ptol-ælibapalsy, Seleuc-as.

TABLE XIX.

Grecian Lawgivers, Philosophers, and Poets.

	Bet. Christ
LYCURGUS born [Lycnes]	926
DRACO [Drásdo]	624
SOLON died [Solun]	559
PYTHAGORAS died aged 80. [Pytháglys]	506
EUCLID the geomet. flourished [Euclozau]	406
SOCRATES died [Socrinn]	399
XENOPHON died [Xenóphilou]	359
PLATO died [Platok]	348
DIOGENES died aged 90. [Diotet]	323
ARISTOTLE died aged 63. [Aristéd]	322
EPICURUS died aged 72. [Epicudpa]	271
ARCHIMEDES slain [Archidad]	212
LINUS and Orpheus [Linadka]	1281
HOMER died [Homnad]	912
ARCHILOCHUS [Archilochuskau]	686
SAPPHO [Sapphsyd]	602
ANACREON [Anácloud]	592
ÆSCHYLUS born [Æschlel]	525
PINDAR died aged 80. [Pindfóz]	440
SOPHOCLES born [Sophoclozoi]	407
THEOCRITUS flourished [Theócreku]	285
LYCOPHRON flourished [Lycophrepz]	270

The Memorial Lines.

Lycnes, Drásdo, Solun, Pytháglys, Euclozau, Socrinn, Xenóphilou, Platok, Diotet, Aristéd, Epicudpa, Archidad, Linadka, Homnad & Archilochuskau, Sapphsyd & Anácloud, Æschlel, Pindfóz, Sophoclozoi, Theócreku, Lycophrepz. —————

TABLE XX.

Roman History.

The foundation of Rome was laid in the 3961 year of the Julian period [Rompinsa] *anno mundi*



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	Ref. Christ
The end of the sedition of the GRACCHI [Gracchade]	} 122
The JUGURTHINE war [Jugubzou]	109
War with the CIMBRI [Cimbat]	113
The social or ITALIAN war [Italein]	89
War begun with MITHRIDATES [Mithridatkou]	89
DICTATORSHIP of SYLLA [Syl-dicteiz]	80
CATALINE'S conspiracy [Catalaud]	62
FIRST TRIUMVIRATE [Trun]	59
BATTLE of PHARSALIA [Pharsop]	47
BATTLE of PHILIPPI [Bat-philob]	41
BATTLE of ACTIUM [Acta]	31

The Memorial Lines.

————— Stat-consularoso,
 Consulzoi, Diconoi, Tribfoud, Decemvolz, Mil-tfoz,
 Incendikk, Samnife, Pyrdoin, Bel-punesi-das-bok,
 Gracchade, Jugubzou, Cimbat, Italein, Mithridatkou,
 Syl-dicteiz, Catalaud, Trun, Pharsop, Bat-philob, Acta.

TABLE XXII.

The Twelve Cæsars.

	Ref. Christ
I. JULIUS CÆSAR [Julios]	46
II. AUGUSTUS, great nephew [Augustel]	25
	Anno Domini
III. TIBERIUS, step-son [Tiberbu]	15
IV. CALIGULA, great nephew [Caligulik]	38
V. CLAUDIUS, uncle [Claod]	42
VI. NERO, step-son [Nerul]	55
VII. GALBA } VIII. OTHO } [Galb-othosou]	69
IX. VITELLIUS } X. VESPASIAN } [Vit-vespoiz]	70
XI. TITUS, son [Titpou]	79
XII. DOMITIAN, brother [Domitka]	81

The Memorial Lines.

Julios, Augustel + Tiberbu, Caligulik, Claod,
 Nerul, Galb-othosou, Vit-vespoiz, Titpou, Domitka.

N. B. The reign of Julius Cæsar is here supposed to commence from the death of Pompey, which made way for his absolute power soon after; the reign of Augustus from the full establishment of his authority by the senate and people. Some reckon it as commencing from the death of Anthony; and others, yet sooner, from the death of Julius Cæsar.

TABLE XXIII.

The Roman Emperors from Nerva to Jovian.

	Anno Domini
XIII. NERVA [Nervous]	96
XIV. TRAJAN [Trank]	98
XV. ADRIAN [Adribap]	117
XVI. ANTONINUS PIUS [Anthip]	137
XVII. ANTONINUS PHILOSOPHUS s. [Ant- phibsa]	} 161
XVIII. COMMODUS s. [Commódbeiz]	180
XIX. PERTINAX	} [Pert-juli- [sant] } 193
XX. Didius JULIANUS	
XXI. SEPTIMIUS S-EVERUS	
XXII. CARACALLA & GETA ss. [Car. Gdab]	211
XXIII. MACRINUS & DIA- dumenus	} [Mac-Dhe- dap-k] } 217
XXIV. HELIOGABALUS	} 218
XXV. ALEXANDER S-EVERUS [Al-sédd]	222
XXVI. M-aximinus and M-aximus [Mmetu]	235
XXVII. PUPIENUS and B-albinus [Pu-bdik]	238
XXVIII. GORDIAN [Gordin]	239
XXIX. PHILIP [Pheff]	244
XXX. DECIUS [Decidon]	249
XXXI. ° GALLUS & VOLUSIAN [Gal-vódda]	251
XXXII. VALERIAN [Valéreli]	253

° GALLUS. Between Gallus and Valerian, some writers rank Æmilian among the number of emperors; but because he was never established in the empire, nor his title generally acknowledged, others more justly place him only among the usurpers.

	Ann ^o Domini
XXXIII. GALLIENUS [Galndauz]	260
XXXIV. PFLAVIUS CLAUDIUS [Clesk]	268
XXXV. AURELIAN [Aurepz]	270
XXXVI. TACITUS [Tacidoil]	275
XXXVII. PROBUS [Probdois]	276
XXXVIII. CARUS and his sons CARINUS and Numerian [Car-Cnudke]	} 282
XXXIX. Dioclesian and Maximian [Di- maxdeif]	} 284
XL. Constantius Chlorus and Gale- rius [Chlo-galtyt]	} 303
XLI. 9CONSTANTINE the Great [Constys]	306
XLII. FILII CONSTANTINI, the three sons of Constantine, viz. Constan- tine, Constantius, and Constans [Fil-constip]	} 337
XLIII. JULIAN, nephew to Constantine the Great [Julisa]	} 361
XLIV. Jovian [Jovtauf]	364

The Memorial Lines.

Nervous, Trank, Adribap, Ant-bip, Ant-phibsa, Cóm-
módbeiz,

Pert-juli-sant, Car-Gdab, Mac-Dhedap-k, Al-sédd,
Mmetu, Pu-bdik,

Gordin, Pheff, Decidon, Gal-vódla, Valéreli, Galndauz,
Clesk, Aurepz, Tacidoil, Probdois, Car-Cnudke, Di-max-
deif,

Chlo-galtyt, Constys, Fil-constip, Julisa, Jovtauf.

PFLAVIUS CLAUDIUS. Upon the death of Claudius, Aurelian was unanimously chosen by the army: and at the same time Quintillus, brother to Claudius, was proclaimed Emperor in Italy, and his election allowed by the senate; but finding himself unable to support his cause against Aurelian, he dispatched himself, by causing his veins to be opened, after a short reign only of seventeen days, before he was rightly settled in his empire; for which reason he is here omitted.

9CONSTANTINE was saluted Emperor of the West upon the death of his father Constantius Chlorus; but was not sole monarch till the defeat and death of LICINIUS, An. Dom. 323. [Licinitet.] He removed the imperial seat to BYZANTIUM in the year 330. [Byzantiz.]

TABLE XXIV.

The Division of the Empire.

EASTERN.		WESTERN.	
	A. D.		A. D.
VALENS [Valiso]	364	VALENTINIAN	} 364
THEODOSIUS MAG- nus [The-magtoin]	} 379	[Valtinitauf]	
ARCADIUS [Arctoul]		395	GRATIAN [Gratoil]
THEODOSIUS JUNIOR	} 408	VALENTINIAN the Se- cond [Val-sikt]	} 383
[Theo-júnozei]			
MARCIAN [Marcolz]	450	HONORIUS [Honolni]	393
LEO [Léoloi]	457	VALENTINIAN the third [Va-tódo]	} 424
ZENO [Zenofpo]	474	MAXIMUS AVITUS [Max-aviful]	
ANASTASIUS [Ana- stafna]	} 491	MAJORIAN [Majolp]	457
JUSTIN [Justlak]		518	* * * *
JUSTINIAN [Justi- nilep]	} 527	AUGUSTULUS, in whom ended the western empire	} 475
* * * *			
PHOCAS [Phocauze]	602	[Augustfoil]	
* * * *		The restoration of the western empire by	} 800
LEO ISAURICUS [Le- Ispap]	} 717	CHARLEMAGNE [Charlmeig]	
* * * *			
IRENE [Irénpoup]	797	* * * *	
BASILIUS MACEDO [Bas-macekaup]	} 867	OTHO MAGNUS [Oth-magnis]	} 936
* * * *			
LEO PHILOSOPHUS [Leo-pheiks]	} 886	* * * *	
* * * *			
ALEXIUS C-omne- nus [Al-cazka]	} 1081	HENRICUS QUARTUS [Hen-quarbzup]	} 1057
* * * *			
MICHAEL PALÆO- logus [Micha- paladsa]	} 1261	FREDERICK ÆNO- barbus [Ænbale]	} 1152
* * * *			
		* * * *	
		FREDERICUS secun- dus [Frebdap]	} 1217
		* * * *	

CONSTANTINOPLE taken in the reign of Constantine Palæologus the last Emperor of the East [Constantinobóli] see page 11. 1453

The Memorial Lines.

Eastern Emperors.

Valiso, The-magtoin, Arctoul, Theo-júnozei, Marcolz, Léoloi, Zenofpo, Anastafna ———
 Jústlak, Justinilep, Phocauze, Le-Ispap, Irénpoup,
 Bas-macekaup, Leo-pheiks, Al-cazka, Micha-paladsu.

Western Emperors.

Valtinitauf, Gratoil, Val-sikt, Honotni, Va-tódo,
 Max-aviful, Majolp ——— Augustfoil ———
 Charlmeig, Oth-magnis, Hen-quarbzup, Ænbalè
 Frebdap.

It was not agreeable with the author's design to give a *complete* table of all the Eastern and Western Emperors. The succession was carried down to the sixth century; and after that, only a few are added of such as were most remarkable: to which it may not be improper to subjoin those persons who were famous for wasting and ravaging the Roman empire.

	An. Dom.
ALARIC, king of the Goths, besieges, takes, and plunders Rome [Alrobz]	} 410
ATTILA, king of the Huns, called the scourge of God, ravages Italy [Attifla]	} 451
GENSERIC the Vandal sacks Rome [Gensful]	455
ODOACER, king of the Heruli, makes himself master of Italy, and assumes the name of king [Odops]	} 476
THEODORIC, king of the Ostrogoths, drives Odoacer from Rome, and kills him with his own sword [Theódoni]	} 493
TOTILAS the Ostrogoth takes Rome [Totlop]	547
Alrobz, Attifla, Gensful, Odops, Theódoni, Totlop.	

TABLE XXV.

Eastern General Councils. See page 5.

Place.	Pope.	Emperor.	Heretics.	After Chri-t. Year.
I. Nice	SILVESTER	CONSTANTINE	ARIUS	325
II. CONSTANTINOPLE	DAMASUS	THEODOSIUS MAGNUS	MACEDONIANS	381
III. EPHESUS	CELESTINE	THEOD. JUN.	NESTORIANS	431
IV. CHALCEDON	LEO	MARCIAN.	EUTYCHES & DIOSCORUS.	451
V. CONSTANTINOPLE	VIGILIUS	JUSTINIAN	ORIGENISTS	553
VI. CONSTANTINOPLE	AGATHO	CONSTANTINE POGONATUS	MONOTHELITES	680

The Memorial Lines.

Nicsilcon-áritel, Codathé-mateib, Ephcethe-nésfib,
Chállemar-eudíola, Covijúst-Olut, C-ágcopo-monseiz.

Western General Councils.

I. LATERAN	1122	I. LYONS	1255
II. LATERAN	1139	II. LYONS	1274
III. LATERAN	1175	[LYODÚL-DOIF]	
IV. LATERAN	1215	VIENNA [VÍTAA]	1311
V. LATERAN	1517	CONSTANCE [CONSTFAS]	1414
[LATBÉD-IN-OIL- DAL-LAP]		BASIL [BASFA]	1431
		FLORENCE [FLORÉNFÍN]	1439
		TRENT [TRENALOL]	1545

The Memorial Lines.

Latbéd-in-oil-dal-lap, Lyodúl-doif, Vítáa, Constfas,
Basfia, Florénfin, Trenalol ———

N. B. A thousand is to be added. Note also, that the second and third Lateran being in the same century with the first, *b* is left out; as *bed-in-oil*, instead of *bed-bin-boil*; the syllables in order answering to the order of the Councils.

Councils. not Œcumenical.

ANCYRA	} [Anc- neotal]	} 315	ANTIOCH [Antob]	341
NEOCÆSAREA			347	
GANGRA [Gangtoz]		340	LAODICEA [Laódisa]	361

Anc-neotal, Gangtoz, Antob, Laódisa, Sardisp.

TABLE XXVI.

Fathers, Heretics, &c.

	Flourished An. Dom.
HERMAS PASTOR [Herm-pastaul]	65
CLEMENS ROMANUS [Clé-romaul]	65
IGNATIUS [Ignabza]	101
POLYCARP [Polycarúzei]	108
JUSTIN MARTYR [Jus-marboz]	140
IRENÆUS [Irasp]	167
THEOPHILUS ANTIOCHENUS [Thask]	168
ATHENAGORAS [Athnapp]	177
CLEMENS ALEXANDRINUS [Cl-éxane]	192
TERTULLIAN [Tertand]	192
MINUTIUS FELIX [Min-fdez]	220
ORIGEN [Oretz]	230
GREGORY THAUMATURGUS [Thaumelf]	254
CYPRIAN martyred [Cyprelk]	258
LACTANTIUS [Lactantyt]	303
ARNOBIOUS [Arntyt]	303
EUSEBIUS PAMPHILIUS [Eu-pamtal]	315
ATHANASIUS [Athates]	326
CYRIL OF JERUSALEM [Cyr-jilz]	350
HILARY [Hilarilf]	354
EPIPHANIUS [Epiphánisk]	368
EPHRAIM SYRUS [Eph-syrtoiz]	370
BASIL MAGNUS [Bas-magtoiz]	370
GREGORY NAZIANZEN [Greg-naztoiz]	370
MACARIUS [Macaript]	373
AMBROSE [Ambrolpo]	374
JEROME [Jeromtoik]	378
EVAGRIUS [Evagleiz]	380



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Eu-pamtal, Athates, Cyr-jilz, Hilarilf, Epiphánisk,
 Eph-syr-Bas-Gregotoiz, Macaript, Ambrotpo, Jerom-
 toik,
 Evagteiz, Rufinz, Austins, Chrysotouk, Cyr-alexôbe.
 Phil-jufy, Joséphaup, Aquibek, Theodótapu, Symchézib.
 Cerintheiz, Papaaz, Basilibbe, Valentady, Marcboz,
 Hermogapy, Montápe, Pau-samdauz, Novdua, Maneppe,
 Dónaten, Eunomitauz, Priscitpa, Pelagiózu.
 Celsbuz, Hierocléze ——— Porphepy, Zosfel.

◆

TABLE XXVII.

Popes, Authors, Famous Men, &c.

	An. Dom.		Bef. Christ
LIBERIUS [Libertle]	352	HIPPARCHUS [Hip- parbse]	162
ZOSIMUS [Zosoap]	417		
LEO-MAG [Leo-moff]	444		
GELASIUS [Gelásone]	492		
JOAN [Joankof]	844	ONKELOS [Onkelkoi]	87
URBIN VI. } Anti-		TACITUS [Tacitázei]	108
CLEMENT VII. } Popes.		AULUS GELLIUS [Gel- aad]	112
[Urb-s-Cle-p-atoip]	1377	PAUSANIAS [Pausato]	134
LEO X. [L-az-blat]	1513	GALEN [Galbot]	143
GREGORY XIII. } 1572		DIOGENES LAERTIUS } [Laertbop]	147
[Gregobi-búpe]		PRUDENTIUS [Prudinp]	397
SEXTUS QUINTUS } 1585		EUTROPIUS [Eu- tropfek]	428
[S-quin-aleil]		MERLIN [Merlopoi]	477
CLEMENT VIII. } 1592		HESYCHIUS [He- schfoun]	499
[Cle-k-aloud]		PROCOPIUS [Procolip]	537
SANCHONIATHON } 1193	Bef. Christ	AGATHIAS [Agath- laup]	567
[Sanchabout]		GILDAS [Gildusp]	567
HERODOTUS [He- rodofus]	456	BEDA [Bedsaus]	666
MANETHO [Ma- nethcky]	280		
BEROSUS [Berodsou]	269		

	An. Dom		An. Dom.
ZONARAS [Zona-rabbak]	} 1118	TYCHO Brahe [Tychblos]	} 1546
GRATIAN [Gratabla]	1151	GALILÆO [Galilasfe]	} 1642
BALSAMON [Balaboub]	} 1191	ERASMUS obit [Erasmuts]	} 1536
Petrus Lombardus [Lombalk]	} 1158	ROBERT Stephens ob. [Ro-stlun]	} 1559
THOMAS Aquinas [Thom-aquads]	} 1263	TURNEBUS [Turnlaul]	} 1565
PETRARCH [Petrattu]	1335	HENRY Stephens ob. [Hen-stelsi]	} 1563
PTOL. GEOGRAPH [Ptol-gëografz]	} 140	THUANUS Historicus [Thuansap]	} 1617
COPERNICUS [Copérnicafoit]	} 1473		

The Memorial Lines.

Libertle, Zosoap, Leo-moff, Gelásone, Joankof, Urb-s-Cle-p-atoip, L-az-blat, S-quin-aleil, Cle-k-aloud, Gregobi-bûpe.

Sanchabout, Herodofus, Manetheky, Hipparbse, Berodsou.

Onkelkoi, Gelaad, Tacitázei, Pausato, Galbot, Laerthop, Prudinp, Eutropfek, Merlopoi, Heschfoun, Procolip, Agathläup, Gildusp, Bedsaus, Zonarabbak, Gratabla, Balaboub, Lombalk, Thom-aquads, Petrattu, Ptol-gëografz, Tychblos, Copérnicafoit, Galilusfe, Erasmuts, Ro-stlun, Turnlaul, Hen-stelsi, Thuansap.

The Time when any Author or famous Man flourished may also be known in general, as follows.

VITRUVIUS <i>in the time of</i>	JULIUS Cæsar
DIONYSIUS HALICARNASSENSIS <i>under</i>	AUGUSTUS
STRABO	TIBERIUS
SILIUS ITALICUS	NERO
QUINTUS CURTIUS	VESPASIAN
PLUTARCH	TRAJAN
APPIAN	

ARRIAN <i>flourished under</i>	ANTONINUS Pius
ULPIAN	SEVERUS
PROSPER.	} THEODOSIUS junior
OROSIUS.	
ZOSIMUS	
JORNANDES	

The Memorial Lines.

Vitruv-jul, Halic-aug, Strab-tib, Sil-Ital-nero, Curt-
vesp,
Plut-Appi-tra, Arri-antr, Ulp-sev, Pros-OróZ-theo,
Jorn-just.

TABLE XXVIII.

The Founders of the States of Europe.

		An. Dom.	
The first	Bishop of Rome	St. Peter [Pest]	43
	Pope	HYGINUS [Hygalo]	154
	Imperii ORIENTIS	GALERIUS [Ori-gal tyt]	303
	Emperor of CON- stantinople	ARCADIUS [Const- arctoul]	} 395
	TURKISH Emperor	OTTOMAN [Turk- ottomadnoi]	
	Emperor of the Ro- mans	JULIUS CÆSAR before Chr. [Rom-jufs]	} 46
	King of ITALY in the Empire	ODOACER [Ital-ódops]	
	Emperor of GER- many	CHARLEMAGNE [Ger- charlmeig]	} 800
	King of FRANCE	PHARAMOND [Fran- pharamódy]	
	King of Spain	ATHAULPHUS [Sp-athfaz]	} 410
	King of PORTUGAL	ALPHONSUS [Port- alabin]	
	King of Scotland	FERGUS before Christ [Scot-fergtid]	} 332
	King of ENGLAND	EGBERT [Engkek]	
	King of POLAND	BOLESLAUS [Ptol- bolath]	} 1000

The 1st	{	King of DENMARK	OLAUS [Den-olak-	}	An. Dom.
			zou]		809
		King of SWEDEN	Bero [SWE-Bkib]		831

The Memorial Lines.

Pest, Hygalo, Ori-galtyt, Const-arctoul, Turk-ottomadnoi,
 Rom-jufs, Ital-ódops, Ger-charlmeig, Fran-pharamódy,
 Sp-athfaz, Port-alabin, Scot-fergtid, Pol-bolath, Engkek,
 Den-olakzou, SWE-Bkib.————



TABLE XXIX.

The Times of the Writing of the Canonical Books of the New Testament.

		An. Dom.				An. Dom.		
1	THESSAL.	}	{	Titus and	}	65		
2	Thessal.		}	1 Timothy			}	
1	PETER [Pelf]	54		2 Peter	}	67		
	GALATIANS	}	}	2 Timothy			}	
1 and 2	CORINTHIANS		57		JUDE [Judpa]	71		
	ROMANS [Gá-co-rup]		57		REVELATIONS [Revnau]	96		
	PHILIPPIANS	}	}	JOHN Gospel and	}	97		
	COLOSSIANS			}			}	Epistles [Jonp]
	E-PHESIANS				62		MATTHEW [Mób or	}
	PHILEMON			62		Matfa]		
	JAMES	}	}	MARK [Marot]	43			
	HEBREWS [Hebsi]			63		LUKE [Laub]	61	
				63		ACTS [Acst]	63	

The Memorial Lines.

Thes-le-t, Pelf, Gá-co-rup, Phi-col-E-ph-jase, Hebsi,
 Ti-timsu,
 Sec-pe-timaup, Judpa, Revnau, Jonp, Mób, Marot,
 Laub, Acst.

TABLE XXX.

The Provincial and Legatine Constitutions, according to the Order in which they were made.

C. nstitutiones Editæ A. D.		Editæ A. D.	
STEPHANI [Stephede]	1222	R. WINCHELSEY	} 1305
RICARDI [Ricardiz]	1230	[Winchtyl]	
EDMUNDI [Edmundis]	} 1236	WALTER [Walted]	1322
OTHONIS Card. Legati [Othdip]		} 1237	SIMON MEFHAM
BONIFACII [Bonesa]	1261		[Si-mephtek]
OTHOBONI Card. Leg. [Othobdauk]	} 1268	J. STRATFORD	} 1342
J. PECCHAM apud READING [Pec-readdoin]		} 1279	
EJUSDEM, apud LAMBETH [Pec-lambeka]	} 1281		S. ISLEPE [Isleptaud]
			S. LANGHAM
		[Langhisp]	
		S. SUDBURY [Sudbutoik]	} 1378
		T. ARUNDEL [Arunfyk]	
		H. CHICHELEY [Chichfal]	} 1415

The Memorial Lines.

Stephede, Ricardiz, Edmundis, Othdip, Othobdauk, Bonesa, Pec-readdoin, Winchtyl, Pec-lambeka, Walted, Si-mephtek, Stratfetod, Isleptaud, Chichfal, Arunfyk, Sudbutoik, & Langhisp. ———

GEOGRAPHICA.

SECTION III.

The Application of this Art to Geography.

IN the first place are laid down the general divisions of Europe, Asia, Africa, and America; then the particular divisions of the several states of Europe, into their respective governments or provinces. For every division there is one *technical* line, composed of the first syllable (or sometimes only of the first letters) of the parts or places into which it is subdivided; which syllables or letters are distinguished from the rest, in the tables, by small capitals, or an hyphen following.

It is further to be observed, that the beginning, middle, and ending of the line, answer, in order, to the *northern*, *middle*, and *southern* divisions of the kingdoms or countries; so that not only the places themselves, but, in some measure, their situation with respect to each other, may be remembered at the same time. Thus, in the *memorial line* for France, as it was before the Revolution, Fra=P Nor-I-cham; Bret-O-BouL; Guí-La-DaP.

P Nor-I-cham denotes the four *northern* governments, viz. P-icardy, NORMandy, I-sle of France, and CHAMPagne.

Bret-O-BouL denotes the four *middle* governments, viz. BREtagne, O-rleanois, Bourgogne, and L-ionnois.

Guí-La-DaP denotes the four *southern* governments, viz. Guienne with Gascony, Languedoc, Dauphiny, and P-rovence.

It will be yet some further help to remember the situation of places, to observe, that in the several

divisions I begin at the *west*, and go to the *eastward*, as far as the limits of the country will allow, in a straight line, unless where the irregularity of the position makes this method inconvenient or impracticable; where that is the case, the reader will supply the defect by his own observation, and by comparing with proper maps.

Observe further, that where the syllables are connected with an hyphen, the countries denoted by them are contiguous from west to east; thus,

Nor-I-cham shews that the Isle of France joins to Normandy on the east, and Champagne to the Isle of France on the east. Where the syllables or letters denoting two or more countries are joined together without an hyphen, there the countries are contiguous from north to south. Thus, Guí-La-DaP shews that Languedoc joins to Guienne on the east, Dauphiny and Provence to Languedoc on the east; and also that Provence is contiguous to and south of Dauphiny. Such syllables as have an hyphen preceding, but are not by it immediately joined to the foregoing syllable, signify that the countries denoted by them lie eastward, but are not contiguous. Thus, Sp -It -Turk shews that Italy is east of Spain, and Turkey east of Italy, but not contiguous.

When the reader is become well acquainted with the *general divisions*, he may then go on to charge his memory with the chief cities and most remarkable places of every country, their longitude and latitude, the correspondence of ancient and present geography, the geography of the Old and New Testament, the proportions of the states of Europe to Great Britain, the situation of the most noted islands, with other instructive and entertaining particulars in geography; all which he will find himself able to remember with greater ease than he could possibly have supposed before he became acquainted with the *memorial lines* contrived for that purpose.



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tain, LOUISIANA, CANADA MEXICO, FLORIDA, CAROLINA, VIRGINIA, MARYLAND, PENNSYLVANIA, NEW YORK, NEW JERSEY, NEW ENGLAND, lying from south-west to north-east.

2. *Southern*; including Terra FIRMA, PERU, country of the AMAZONS, BRAZIL, CHILI, PARAGUAY, Terra MAGELLANICA.

The Memorial Lines.

N-AM = Wal-Brit, Louis-Can, Mex-Flor, Car-Vi-M,
P-YorJ Eng.

—S-AM = Firm, Per-Amáz Bra, Chi-Par, Mag.

TABLE II.

The particular Divisions of Northern Europe.

I. NORWAY is divided into five parts or governments, viz.

WARDHUYs (including F-inmark and Norwegian LAPLAND) DRONTHEIM, BERGEN, ANSLO.

II. SWEDEN was divided into four general parts, viz.

Swedish LAPLAND with B-othnia intermingled; SWEDEN proper, FINLAND (lately seized by Russia) and GOTH-land.

III. DENMARK contains

The peninsula of JUTLAND, ZEALAND, and the lesser isles.

IV. RUSSIA contains many provinces, the most considerable of which are,

Northern; LAPLAND, DWINA or Archangel.

Middle; FINLAND, ESTHONIA, LIVONIA, INGRIA, NOVGOROD, MOSCOW.

Western; LITHUANIA, POLÓTSK, MOHILEV, UKRAINE, BELGOROD.

Southern; BUDZIAK Tartary, CRIM Tartary or TAURIDA, VORONEZ, DON KOZACKS.

The Memorial Lines for Northern Europe.

NOR=Ward (F-Lap) DroBerAns. SWED=Lá (B)
Swep-Fin Goth.

DEN=Jut-Zea —————

RUSS=Lap-Dwi; FinEst Liv; Ing-Nov-Mosc; Lith-
Pol-Mo-Ukr-Bel; Bud-Crim-Vor-Donk.



TABLE III.

The particular Divisions of Middle Europe.

1. The NETHERLANDS, or Low Countries, heretofore were generally distinguished into the United or Dutch Netherlands lying to the north, frequently called Holland, and the former Spanish Netherlands to the south, often called Flanders, from the most remarkable province in each.

The United Netherlands, now incorporated with France, formerly were divided into seven provinces, viz. FRIESLAND, GRONINGEN, OVERYSSSEL, HOLLAND, UTRECHT, GUELDERLAND with ZUTPHEN, ZEELAND.

The Spanish Netherlands, now swallowed up by France, were usually divided into these ten provinces, viz. FLANDERS, BRABANT, MARQUISATE of the empire within Brabant, seignory of Malines within Brabant, part of GUELDERLAND, LIMBURG, ARTOIS, HAINAULT, NAMUR, LUXEMBURG.

HOLL=Fries-GrOv H-U-Gue-Zu Z; Fla-B (Mar-Ma) GLim Art-Hai-Na-Luxem.

II. GERMANY was divided into nine circles:

Three *northern*; circle of Westphalia, circle of *lower* Saxony, circle of *upper* Saxony.

Three *middle*; circle of *lower* Rhine, circle of *upper* Rhine, circle of FRANCONIA.

Three *southern*; circle of SUABIA, circle of BAVARIA, circle of AUSTRIA.

To which may be added, the kingdom of BOHE-

MIA distinguished into four general parts, viz. Lusatia, Silesia, BOHemia Proper, MORAVIA,

GERM=We-Sal-up; Rhil-u-Fran; Sua-Bav-Aus.

BOHE=Lusa-Si-Bop-Mor.

III. POLAND was divided into two general parts; the duchy of Lithuania, and the kingdom of Poland properly so called.

Lithuania, consisting of the duchy of Courland, SAMOGITIA, LITHUANIA proper.

The kingdom of Poland contained PRUSSIA, POLACHIA, MAZOVIA, Poland *magna*, Poland *parva*, little RUSSIA, VOLHINIA, PODOLIA.

POL=CouSa-Lith, Pru-Polach, Maz, Polmapa, Rus-VolhiPodol.

IV. FRANCE was divided into twelve governments, now, including the conquered countries, into about 120 departments:

Four *northern*; P-icardy, Normandy, I-sle of France, CHAMPAGNE.

Four *middle*; BRETAGNE, O-rleannois, BOURGOGNE, L-ionnois.

Four *southern*; Guienne with Gascony, LANGUEDOC, DAUPHINY, P-rovence.

To which may be added, the other countries comprehended within the compass of Old Gaul, viz.

LORRAIN, east of Champagne.

SAVOY, east of Bourgogne or Burgundy and Dauphiny.

SWITZERLAND, east of Franché C-ompté.

FRANCHÉ COMPTÉ, east of B-urgundy.

FRA=P Nor-I-Cham; Brét-O-BouL; Guí-La-DaP.
LorCh, SavBuDa, SwiC, CoB.

TABLE IV.

The particular Divisions of Southern Europe.

I. SPAIN (excluding Portugal) may be divided into two general parts:

Northern; containing eight provinces, viz. Galicia, A-sturia, Biscay, N-avarre, ARAGON, CATALONIA, LEON, Old (*vetus*) CASTILE.

Southern; containing five provinces, viz. New (*nova*) CASTILE, VALENCIA, ANDALUSIA, MURCIA, G-ranada.

SPA = Gál-A-Bisc-N-Ara-Cat, Lé-Casvet; Casno-Val, And-MurG.

II. ITALY might formerly be distinguished into

Northern, or Lombardy; containing Piedmont, MONTserrat, MILAN, G-enoa, VENICE, MANTUA, PARma, Mirandola, Modena.

Southern; Lucca, Tuscany or Etruria, the PAPacy or States of the Church, NAPLES.

IT = Lom (= Pi-Mont-MilG, VenManPa-Mi-Mód) Lu-Tu, Pap-Nap.

III. TURKEY in EUROPE may be distinguished into

Northern; containing Bessarabia, CROATIA, D-altia, BOSNIA, SERVIA, BULGARIA.

Southern; containing ALBANIA, MACEDONIA, ROMANIA, CHIMÆRÀ, Janna, LIVADIA, MOREA.

TURK = Bess, CroD-Bó-Se-Bulg; Alb-Mac-Rom, Chim-Ja, LivadMor.

The Memorial Lines for all Europe.

NOR = Ward (F-Lap) Dro-BerAns. SWED = Lá (B) Swep-Fin Goth.

DEN = Jut-Zea —————

RUSS = Lap-Dwi; FinEstLiv; Ing-Nov-Mosc; Lith-Pol-Mo-Ukr-Bel; Bud-Crim-Vor-Donk.

HOLL = Fries-GrOv H-U-Gue-Zu Z; Fla-B (Mar-Ma) GLim Art-Hai-Na-Luxem.

GERM = We-Sal-up; Rhil-u-Fran; Sua-Bav-Aus.

BOHE = Lusa-Si-Bop-Mor.

POL = CouSa-Lith, Pru-Polach, Maz, Polmapa, Rus-VolhiPodol.

FRA = P^r Nor-I-Cham ; Brét-O-BouL Guí-La-ĐaP.
LorCh, SavBuDa, SwiC, CoB.

SPA = Gál-A-Bisc-N-Ara-Cat, Lé-Casvet ; Casno-Val,
And-MurG.

IT = Lom (= Pi-Mont-MilG, VenManPa-Mi-Mód)
Lu-Tu, Pap-Nap.

TURK = Bess, CroD-Bó-Se-Bulg ; Alb-Mac-Rom,
Chim-Ja, LivadMor.

TABLE V.

England, Wales, Ireland, and Scotland.

1. ENGLAND may be divided into three general parts, *northern*, *middle*, and *southern*; which all together contain 40 counties or shires.

The *northern* part of England contains 6 counties or shires:

On the west coast, from
north to south,
Cumberland
Westmoreland
Lancashire
[Cum-WeLa]

On the east coast, from
north to south,
Northumberland
Durham
Yorkshire
[NorDurYor]

The *middle* part of England contains 24 counties or shires:

On the west, joining to
Wales from N. to S.
Cheshire }
Shropshire }
Herefordshire }
Monmouthshire
[CheShHeMon]

On the east coast, from
north to south,
Lincolnshire
N-orfolk
S-uffolk
Essex
[Li NSEss]

Between Lincoln- shire E. and Chesh. and Shropsh. W.	Between Norfolk and Suffolk E. and Herefordshire W.	Between Essex E. and Mon- mouthshire W.
Derbyshire NOTting- hamshire STAFFordshire LEICestershire R-utlandshire [De-No-Staf- Lei-R]	N. WORcestershire WARwickshire NORthamptonsh. B-edfordshire HUNtingdonshire C-ambridgeshire [Wor-Wá-No- B-Hun-C]	GLoucestershire O-xfordshire BUckinghamshire HERtfordshire M-iddlesex [Gl-O-Buc- HerM]

The *southern* part of England contains 10 counties or shires :

Between the Channel and the Severn sea.	Between the Channel and the Thames.
CORNwall DEVonshire SOMerssetshire DORsetshire [Corn-Dév-So-Do]	WILTshire BERkshire HAMpshire SURrey S-ussex KENT [Wilt-BerHa-SurS-Ken]

The Memorial Lines.

Cum-WeLa, NorDurYor, CheShHeMon, Li NSEss
De-No Staf-Lei-R,
Wor-Wá-No-B-Hun-C, Gl-O-Buc-HerM, Corn-
Dév-SoDo, Wilt-Ber-Ha-SurS-Ken.

The Division of England according to the Circuits.

WESTERN. Cor-dé-dor-ham, Som- wilt.	OXFORD. Ber-O-gloúce-mon, wórcest-here-shrop-staff.
HOME. Hert-éss-ken-sur-sus.	MIDLAND. North-rut-linc, Derby-no- leíce-war.

NORFOLK.

Nórf-su-cam, Hun-béd-buck.

NORTHERN.

Yor-dur-nor, lánca-we-cumber.

II. WALES is divided into two general parts :

North Wales; containing ANGLESEY, CAERNARVONSHIRE, DENBIGHSHIRE, FLINTSHIRE, MERIONETHSHIRE, MONTGOMERYSHIRE.

South Wales; containing CARDIGANSHIRE, RADNORSHIRE, PEMBROKESHIRE, CARMARTHENSHIRE, BRECKNOCKSHIRE, GLAMORGANSHIRE.

The Memorial Lines.

W = Ang-Cá-De-Fli-ch, Meri-Mont-sh; Card-Radn-here, Pem-Ca-BreGlam-mon.

N. B. The *italic* letters denote the adjoining counties of England; as *ch* Cheshire, adjoining to Flintshire: *sh* Shropshire, adjoining to Montgomeryshire; *here* Herefordshire; *mon* Monmouthshire.

III. SCOTLAND is divided into two general parts :

North Scotland, or Highlands, beyond the river Tay, containing 13 counties; among which are STRATHNAVERN, CAITHNESS, SUTHERLAND, ROSS, LOCHABAR, MURRAY, BRAIDALBIN, P-erth.

South Scotland, on this side the Tay, containing 20 counties; some of which are ARGYLE, FIFE, LOthian, AIRE, GALLOWAY.

The Memorial Line.

SCOT = Strath-Caith, SúthRoss, Lock -Mur, BraiP; Arg -Fi, Lo-Air, Gal.

IV. IRELAND is divided into four larger parts or provinces :

ULSTER to the north		LEINSTER to the east
MUNSTER to the south		CONNAUGHT to the west

The Memorial Line.

IREL = Ulst, Léin-Con, Munst.



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The Memorial Lines.

Hamb-hanosal, Witsup, Hei-colrhilo, Munbarar, Aug-
suab,
Francrhup, NurF, Munswest, Strasthup, Clevwestpha,
ViennAust.

IN SPAIN.

BILBOA in <i>Biscay</i>	PAMPELUNA in <i>Navarre</i>
COMPOSTELLA in <i>Gallicia</i>	SARAGOSSA in <i>Arragon</i>
SEVILLE in <i>Andalusia</i>	BURGOS in <i>Castile vetus</i>
BARCELONA in <i>Catalonia</i>	MADRID in <i>Castile nova</i>
OVIEDO in <i>Asturia</i>	TORTOSA in <i>Catalonia</i>

The Memorial Lines.

Bilbis, Composgal, Sevandal, Barcatal, Ovast,
Pampelnau, Saragar, Burgcas-vet, Mad-ca-no Tortcat.

IN TURKEY IN EUROPE.

SOPHIA } chief town in	TERGOVISK in <i>Walachia</i>
} <i>Bulgaria</i>	HERMAN- } in <i>Transyl-</i>
BELGRADE in <i>Servia</i>	stadt } <i>vania.</i>
SERAIO in <i>Bosnia</i>	CHOCZIM in <i>Moldavia</i>
SPALATRO in <i>Dalmatia</i>	CONSTANTI- } in <i>Romania</i>
SALONICHI in <i>Macedonia</i>	nople }
CARLSTAT in <i>Croatia</i>	

The Memorial Lines.

Sophbul, Belgservi, Seraibos, Spalda, Salonmac,
Carlscro, Tergónalach, Hermtransyl, Choczimo, Con-
strom.

TABLE VII.

Remarkable Places (sparsim) in Europe.

FONTARABIA in <i>Biscay</i>	CASSEL in <i>Upper Rhine</i>
RATISBON in <i>Bavaria</i>	ARCHANGEL in <i>Dvina</i>
PADUA in <i>Venice</i>	HOCHSTET } in <i>Bavaria</i>
NIMEGUEN in <i>Guelderland</i>	BLLENHEIM }
OLIVA in <i>Prussia</i>	St. OMERS in <i>Artois</i>
CONSTANCE in <i>Suabia</i>	VERDEN } in <i>lower</i>
AIX-LA-CHA- } in <i>West-</i>	BREMEN } <i>Saxony</i>
pelle } <i>phalia</i>	MAGDEBURG in <i>lo. Saxony</i>
MONTPE- } in <i>Langue-</i>	CALAIŚ in <i>Picardy</i>
Lier } <i>doc</i>	BADEN in <i>Suabia</i>

BENEVENTO in *Naples*
 BREDA in *Brabant*
 CADIZ in *Andalusia*
 AGINCOURT in *Artois*
 MITTAW in *Courland*
 MALAGA in *Granada*
 TRIERS in *lower Rhine*
 MAESTRICH in *Limburg*
 HAVRE- } in *Normandy*
 degrece }
 VALEDOLID in *Old Castile*
 TOLEDO in *New Castile*
 MEAUX in *Champagne*
 SOISSONS in *Isle of France*
 AVIGNON in *Provence*
 NASSAW in *upper Rhine*
 CITADELLA in *Minorca*
 CAGLIARI in *Sardinia*
 PALERMO in *Sicily*
 SLESWICK in *Jutland*
 BASTIA in *Corsica*
 CRACOW in *Poland parva*
 WARSAW in *Mazovia*
 BERGEN in *Norway*
 COPENHAGEN in *Zealand*
 NISMES in *Languedoc*
 CHRISTIANA in *Aggerhuys*
 T^{at}IN in *Piedmont*
 RIGA in *Livonia*
 ROCHELLE in *Orleannois*
 GOTTENBURG in *Gothland*
 LUNDEN in *Sconen*
 CRESSY in *Picardy*
 SALAMANCA in *Leon*
 ZELL in *lower Saxony*
 CHAMBERRY in *Savoy*
 DANTZIC in *Poland*
 STOCK- } in *Sweden*
 holm } .proper
 PRESBURG in *up. Hungary*

CORDOVA in *Andalusia*
 CARTHAGENA in *Murcia*
 BESAN- } in *Franché*
 çon } . *Comté*
 LIEGE in *Westphalia*
 CREMONA in *Milan*
 BATCHI- } in the *Penin-*
 serai } sula of *Little*
Tartary
 NANCY in *Lorraine*
 LEGHORNE } in *Tuscany*
 FLORENCE }
 GENEVA in *Switzerland*
 LISBON in *P-ortugal*
 RAGUSA in *Dalmatia*
 BRESLAW in *Silesia*
 PRAGUE in *Bohemia*
 STETIN in *Pomerania*
 PERPIGNAN in *Rousillon*
 TRENT in *Tyrol*
 STRASBURG in *Alsace*
 POLA in *Istria*
 POSEGA }
 PETERWA- } in *Sclavonia*
 RADIN }
 BERLIN in *Brandenburg*
 DRESDEN } in *Saxony*
 LEIPSIC }
 RAVENNA in *Romagna*
 LORETTO in *Ancona*

Rousil- } part of *Catalo-*
 lon } nia
 SCLAVONIA of *Hungary*
 TYROL of *Austria*
 POMERANIA } of *Upper*
 BRANDENBURG } *S-axony*
 SAXONY }
 and } of the late *Vene-*
 ISTRIA } tian territories

ANCONA	{ part of the Papacy or states of the Church	BERRY	} of Orleannois
ROMAGNA		ANJOU	
LIMOSIN part of Guienne		HOLSTEIN	{ part of Lower Saxony
		CAPITANATE	part of Naples

The Memorial Lines.

Fontárabisc, Ratibav, Padven, Ninguélder, Olivprus,
 Constsuab, Aix-la-chawest, Montpellang, Cassrhup &
 Archdwin,
 Hoch-blenhebav, Omerart, Verdbremsa-lo, Magdsa-lo,
 Calpic,
 Badsuab, Benvennap, Bredbrab, Cadandal, Agincart,
 Mitcourland, Malagran, Trierhi-l, Maestlimbur, Ha-
 vrednorm,
 ValedoloC, TolnewC, Meauxcham, Soissisle & Avig-
 prov,
 Nassrh-up, Citadelmin, Cagsard, Palersici, Slesjut,
 Bastcorsic, Cracopolp, Warsmazov, Bergeno, Copzeal,
 Nismklanged, Christagg, Turínpiéd, Rigali, Rochorl,
 GoG, Lundscon, Cresspic, Salamancle, Zellsalo, Cham-
 sav,
 Dantzícpol, Stockswep, Prés-uphung, Cordandalu,
 Cartmur,
 Besfran-com, Liegewest, Cremmil, Batcharta-pe, Nanlor,
 Log-Flortusc, Genswitz, LísP, Ragdal, Bressile, Pragto,
 Stetpomeran, Perprous, Trentyr, Strasbalsa, Polistri,
 Pos-warasclav, Berlbran, Dres-Leipsax, Ravro, Lo-
 rettanc,
 Rouscatalon, Slavhung, Tyrolaust, Pom-brand-saSup,
 Istven,
 Anc-Rompap, Limoguienn, Berr-Anjorl, Holstsalo,
 Capnap.

TABLE VIII.

*Some chief Cities and remarkable Places in Asia,
 Africa, and America.*

PEKIN capital of China	Ispahan in Persia
AGRA in India	ALEPPO capital of Syria
CHAMBALU in Tartary	CAIRO in Egypt

FEZ in <i>Barbary</i>	PORTROSE- } in <i>Nova</i>	
DAARA in <i>Bildulgerid</i>	way } <i>Scotia</i>	
TOMBUTE in <i>Negroland</i>	ASTRACHAN in <i>Tartary</i>	
MONOMO- } in <i>Æthiopia</i>	NICOSIA in <i>Cyprus</i>	
topa } <i>superior</i>	MOUSUL } in <i>Diarbec</i>	
DANGOLA in <i>Nubia</i>	BAC'DAT }	
CHAXUMO } in <i>Æthiopia</i>	SMYRNA in <i>Natolia</i>	
inferior }	AZOV in <i>Circassia</i>	
S. FE in <i>Granada</i>	<hr/>	
S. SALVADOR in <i>Brazil</i>	NATOLIA	} Parts of <i>Turkey</i> in <i>Asia</i>
S. JAGO in <i>Chili</i>	SYRIA	
ASSUMPTION in <i>Paraguay</i>	DIARBEK	
QUEBEC in <i>Canada</i>	TURCOMANIA	
PHILADEL- } in <i>Pensilva-</i>	MINGRELIA of <i>Georgia</i>	} of <i>Nato-</i> <i>lia</i> largely taken
phia } <i>nia</i>	CARAMANIA	
JAMES' TOWN in <i>Virginia</i>	AMASIA	
BALTIMORE in <i>Maryland</i>	NATOLIA prop.	
	ALADULIA	

The Memorial Lines.

Pekchin, Agrind, Chambtart, Isppers, Alépsyri, Cair E,
 Fez barb, Daabildul, Tombneg, Monomæth-supe, Dang-
 nub,
 Chaxæth-inf, Fégran, Salvbraz, Jagóchili, Asspar,
 Quebecanadá, Philpens, Jamvirgin, Baltmary, Portno-sc.
 Astractart, Nicocyp, Mous-Bagdia, Smyrnat, Azovcirc.
 Nat-Syri-Di-Turctur, Minggeorg, Car-Amás-Nat-
 Alnat.

TABLE IX.

*Latitude and Longitude of the most remarkable
 Places.*

To the beginning of the name of the place is added
 a *technical* ending, consisting of three or four letters,
 the two first whereof denote the latitude, the other
 the longitude: thus,

Stocklou-ak, i. e. Stockholm in the 59th degree

of latitude, and 18 of longitude; *lou* standing for 59, according to the general key, and *ak* for 18. But this is not the *exact* longitude and latitude of the place, because no minutes are taken notice of, which would perhaps be a nicety not worth remembering: but that the latitude is between 59 and 60, and the longitude between 18 and 19°. And it is farther to be observed, that if of the two letters which signify the longitude and latitude, the first is a *consonant*, as in *lou*, in that case, though the longitude, &c. is between 59 and 60, yet it is nearer to 60 than it is to 59, and consequently 59 degrees 30 minutes at least, if not more. If the first letter is a *vowel*, as in *ak*, though it is between 18 and 19, yet it is nearer to the *lesser* number, and consequently 18 degrees and *under* a half; as the true longitude of Stockholm is 18 deg. 22 min. the true latitude 59 deg. 30 min.

	Lat.	Lon.		Lat.	Lon.	
†BERGEN [Bersy-l]	60	5	CONSTANTINOPLE	}	41 31	
STOCKHOLM	}	59 18	[Conob-ta]			
[Stocklou-ak]			MOSCOW [Mos-	}	55 38	PRAGUE [Prag-
MOSCOW [Mos-	lu-tei]	DANTZIC				
COPENHAGEN	}	55 12	[Dantzuf-bei]	}	54 18	
[Coplu-be]			BASIL [Básilfoi-p]			}
PARIS. [Parfk-e]	48	2	BRUSSELS			
CRACOW [Cra-	}	50 20	Brusly-o]	}	36 6	
cúz-ez]			†GIBRALTAR			
VIENNA [Viok-ap]	48	17	[Gibtau-s]	}	38 29	
MADRID [Ma-	}	40 3	†SMYRNA [Smik-			
droy-t]			ROME [Romfú-be]	41	12	TROY [Troy-en]

† This accuracy hath not been altogether observed in those places which have this mark (†) placed before them; the assigning to them their respective degrees of longitude and latitude being intended only to enable the learner to remember in what part of the globe they are situated.

	Lat.	Lon.		Lat.	Lon.
† JERUSALEM [Jeruta-ts]	} 31	36	† Fort St. GEORGE [Gëobí-sou]	} 13	69
ALEPPO [Alepl's-tei]			} 36		
RHODES [Rhotoi-te]	37	32		ARCHANGEL [Archsó-fe]	} 64
† BABYLON [Ba- bit-fo]	} 33	44	BENGAL [Beng- dá-oul]	} 21	
ATHENS [Athik-el]			38		25
IDA [Idil-doi]	35	27	CAIRO [Cairdou-il]	29	35
WARSAW [War- súd-eb]	} 52	21	LEIPSIC [Leip- sb- i]	} 51	12
ALEXANDRIA [Alexib-if]			} 31		
S. HELENS [Hel- bu-p]	} 15	7		† NINEVEH [Ninto-fe]	} 34
LISBON [Listei-bz]			38	10	
NAPLES [Naplob-bu]	} 41	15	† PORTO RICO [Ricéz-lou]	} 20	59
MESSINA [Mes- sik-bau]			} 38		
† CARTHAGE [Carthti-by]	} 33	10		† J-AMAICA [Jak-ky]	} 18
NANCY [Nanfei-s]			48	6	
† ISPAHAN [Isp- te-on]	} 32	49	† MADEIRA ISLES [Madit-ed]	} 33	22
AGRA [Agrék-oit]			28		
SIAM [Siamaf-ga]	14	100	FERRO one of the Canary Isles [Ferrek-ak]	} 28	18
† JAPAN [Jap- to-bay]	} 34	110	† QUEBEC [Quop-pu]		
† FORMOSA [Formdi-g]			} 23	100	
† ASTRACHAN [Astrop-lau]	} 47	56			
PEKIN [Pekin- oz-bap]			} 40	117	

N. B. The first meridian is fixed at London.

It may be convenient to remember the *exact* longitude and latitude of some particular places; as;

	Lat. deg. min.	Long. deg. min.
LONDON [Lónla, <i>ib</i>]	51 31	00 00'
FERRO Isl. [Ferrép, <i>op-ap, il</i>]	27 47	17 35W
OXFORD [Oxla, <i>fs-b, al</i>]	51 46	01 15W
ROME [Rómfa, <i>lo-bé, dou</i>]	41 51	12 29 E

The Memorial Lines.

Bersy-l, Stocklou-ak, Moslu-tei, Coplu-be, Parfk-e,
 Cracúz-ex, Viok-ap, Madroy-t, Rómfa-be, Conob-ta,
 Pragly-bo, Dantzuf-bei, Básilfoi-p, Brusly-o, Gibtau-s,
 Smik-dou, Troy-en, Jeruta-ts, Alepís-tei, Rhotoi-te,
 Babit-fo,
 Athik-el, Idil-doi, Warsúd-eb, Alexib-if, Helbu-p,
 >Listei-bz, Naplob-bu, Messik-bau, Carthti-by, Nanfei-s,
 Ispte-on, Agrék-oit, Siamaf-ga, Japto-bay, Formdi-g,
 Astrop-lau, Pekinoz-bap, Gëobí-sou, Spitpi-sou,
 Archsó-fe,
 Bengdá-oul, Venst-ad, Cairdou-il, Leipsub-ad, Hecsl-at,
 Ninto-fe, Belbá-ku, Ricéz-lou, Bermta-lou, Jak-ky,
 Tercerip-el, Madit-ed, Ferrek-ak, Barbu-la, Quop-pu.
 Lónla, *ib*; Ferrép, *op-ap, il*; Oxla, *fs-b, al*; Rómfa,
lo-bé, dou.

TABLE X.

Distance of chief Cities, &c. from London, in English Miles.

To the beginning of the name of the place there are two or three letters added, which are to be supplied with a cypher at the end; it being thought sufficient to give a round number, instead of being too exact, especially in a matter wherein the best geographers themselves are not agreed: as,

[Madreis] MADRID distant from London 86, *sc.* 860 miles. COPENHAGEN [Copsa] distant about 61, *sc.* 610. GENEVA [Generos] distant 46, *sc.* 460 miles; and so of the rest, only PARIS [Pardel] 225.



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DENMARK	}	1,49	United Provin-	}	,11
[Dénmab,on]			ces ^u [Un-pr,ab]		
Portugal [Por,ts]		,36	SWITZERLAND ^u	}	,17
SPANISH N-ether-	}	,18	[Switzer,boi]		
lands ^u [Span-n,ak]			Britain	1,00	

The Memorial Lines.

Russaz-bi, Germt,ut, Swi,ss, Polt,in, Fra,p, Spa,ka,
Turt,ak,
Por,ts, Span-n,ak, Un-pr,ab, Switzer,boi, Dén-mab,on,
Itb,an.

EXPLANATION.

[Gert,ut] Germany is to Great Britain as 3,53 to 1, *i. e.* three times as big, and a little above half as big. United Provinces [Un-pr,ab] as ,11 or very little above a tenth part; and so of the rest.

Note, That a degree is esteemed equal to 60 GEOMETRICAL miles, 69½ English statute miles, 15 GERMAN miles, 25 common FRENCH leagues, 480 GREEK STADIA, 16 PERSIAN PARASANGS, 12 (or according to some 8) ÆGYPTIAN SCHŒNI.

Deg = Geömauz = Gerbu = Frel = Stadoky = Perspara-
báu = Schad.

TABLE XII.

Situation of Islands.

I. EUROPEAN ISLANDS.

In the Northern Ocean	{	Iceland west of Norway [Icenor]
		Britain and Ireland.
In the Baltic	{	ZEALAND } E. of Jutland [Fun-
		FUNEN } Zealjut]
In the Mediterranean	{	Minorca
		MAJORCA } East of } [MiMajorc
		Y-vica } Valencia } Yvalenci]

^t Including Norway and Iceland.

^u Now in possession of France.

In the Mediterranean	CO	Orsica	} S. of Genoa [CoSardgen]
		SARDINIA	
	Sicily south of Naples [Sicina]		
	CANDIA	south of the Archipelago	} [Cand- urc]pel]
	CORFU west of Butrinto [Corfbut]		
	CEPHALONIA	W.	} of the Morea { [Cepha- Zant- Cemo]
	ZANTE	W.	
CERIGO	S.		
NEGROPONT east of Livadia [Negliv]			

The Memorial Lines.

Icenor, FunZealjut, MiMajorcYvalenci, CoSardgen, Sicina, Candarchpel, Corfbut, CephaZantCemo, Negliv.

II. ASIATIC ISLANDS.

In the Eastern Ocean.	JAPAN E. of North China [JadnorCh]				
	FORMOSA E. of South China [FormósouChin]				
	PHILIPPINE	Isl. E. of the	} [PhilipEast Pen]		
		Eastern Peninsula			
	LADRONE	Isl. E. of the Philippines	[Ladphi]		
	MOLUCCA	Isl. E. of the	} [MolúcPEast]		
		Eastern P-eninsula			
	Isles of the SOUND	S.E. of	} [Sound- PEast]		
		the Eastern P-eninsula			
In the Mediterranean	MALDIVES	S.	} of the Western	} [Mal-Céy- PWest]	
		CEYLON			E.
In the Archipelago	RHODES	} S. of Natolia	[RhodCypnato]		
			CYPRU		
			STALIMENE	} W. of Nato- lia N. to S. }	} [StalMeSci- Sámnat]
			METELIN		
			SCIO		
SAMOS					

The chief of the Molucca Isles are CELEBES or Macassar, GILOLO, CERAM, AMBOYNA.

The chief of the Philippines are MANILLA and MIN-DANAO.

Isles of the SOUND, the chief are SUMATRA, BORNEO, and JAVA.

The Memorial Lines.

JapnorCh, FormósouChin, PhilipEastPèn, Ladphi,
MolúcPEast,
SoundPEast, MalCéyPWest, Rhod-Cypnato, StálMe-
SciSámnat.

MOL = Cele-GilCér-Amb. PHIL = ManMind. SOUND
= Suma-BornJav.

III. AFRICAN ISLANDS.

In the Æthio- pic O- cean	{	MADAGASCAR or the Isle of St. Laurence, E. of the south part of Zanguebar	}	[Madgasczang]	
		Zocotra, at the east end of the coast of <i>Ajan</i>		}	[Zocajan]
		St. HELENS west of Congo			[HelCongo]
In the Atlan- tic O- cean	{	Isles of Cape VERD, W. of Negroland	}	[Verdne]	
		CANARY Isles W. of <i>Bildulgerid</i>		[Canárbild]	
		MADEIRA Isles W. of <i>Barbary</i>		[Madéirbarb]	
		AZORE Isles W. of <i>Portugal</i>		[Azport]	
In the Mediterranean	{	MALTA S. of Sicily	}	[Maltsic]	
		PHAROS at the mouth of the port to <i>Alexandria</i>		[Pharalexan]	

The chief of the CANARY Isles are FERRO or Hiero,
TENERIFFE, CANARY.

The chief of the AZORES, TERCERA.

The chief of the MADEIRA Isles, PORTO SANTO and
MADEIRA.

The Memorial Lines.

Madgasczang, Zocajan, HelCongo, Verdne, Canárbild,
Madéirbarb, Azport——Maltsic, Pharalexan.

CAN = FerHi-TeneCan; Az = Terce; MADEIRA = Po-
SanMad.

IV. AMERICAN ISLANDS.

NEWFOUNDLAND east of Nova Scôtia [NewfnorScot]
CALIFORNIA west of New Granada [Caligran]

CARIBBEE Isles east of the *Antilles* [*Caribant*]
 LUCAYOS Isles east of *Florida* [*LuF*]
 BERMUDAS or Sommers' Isles east of } [*Bermcar*]
 Carolina

ANTILLES Isles south of *Lucayos* Isles [*Antílluc*]

The chief of the *Lucayos* Islands are *Bahama*,
Lucayone, *Providence*.

The chief of the *CARIBBEE* Islands are *BARBADOES*
 and the *Leeward* Isles, viz. *St. CHRISTOPHER'S*, *ANTIGUA*,
Tobago, &c.

The chief of the *ANTILLES* Islands are *Cuba*, *JAMAICA*,
Hispaniola, *Porto Rico*.

The Memorial Lines.

NewfnoScot, *Caligran*, *Caribant*, *LuF*, *Bermcar*,
Antílluc.

Luc=*Ba-Lu-Prov*; *Cari*=*Barb*, *Chr-Ant-Tob*; *Antíll*=*Cu-Jam-Hisp-Ric*.

TABLE XIII.

The most remarkable of the lesser British Isles.

ORKNEY } North of Scotland [*Ork-shetno-sc*]
 SHETLAND }
 HOLY Island east of *Northumberland* [*Holynorth*]
 CANVEY Isl. } near the mouth } Essex [*Canvess*]
 SHEPPEY Isl. } } of the Thames } Kent [*Shep-*
 THANET } } in } } *thanken*]
 ANGLESEY west of *Caernarvonshire* [*Angcaern*]
 MAN west of *Lancashire* [*Manlan*]
 RAMSEY over against *St. David's* } [*Ramdavi-pem*]
 Point in *Pembrokeshire* }
 WIGHT (*Vectis*) S. of *Hampshire* [*VecS-ham*]
 GUERNSEY } on the Coast of } [*Guer-jerco-nor*]
 JERSEY } Normandy }
 WESTERN Isl. (*Ebudæ*) West of Scotland [*Ebwe-sc*]

The Memorial Lines.

Ork-shetno-sc. Holynorth, Canvess, Shep-thanken, &
 Angcaern,
 Manlan, Ramdavi-pem, VecS-ham, Guer-jerco-nor,
 Ebwe-sc.

TABLE XIV.

Ancient Europe, Asia, and Africa.

I. Ancient EUROPE, by way of accommodation to the present divisions of it, may be divided into,

1. *Northern*; containing SCANDINAVIA, FENINGIA, part of SARMATIA, CIMBRICA Chersonesus, CODANONIA Insula.

2. *Middle*; containing GERMANIA, the rest of SARMATIA, GALLIA Transalpina or Celtogalatia, RHÆTIA, Vindelicia, NORICUM, part of PANNONIA, DACIA.

3. *Southern*; containing IBERIA, ITALIA, the rest of PANNONIA, ILLYRICUM, MÆSIA, GRÆCIA, THRACIA.

EUR=Sca-Fe, Sarm, Cimb-Cod; Ger-S, G-Rhœ-V-No-Pa-D; Ib-Ita-Pill-MœG-Th.

II. ASIA Antiqua may be divided into,

1. *Northern*; containing SCYTHIA Asiatica, SOGDIANA; COLCHIS, IBERIA, ALBANIA.

2. *Middle*; containing ASIA M-inor, ARMENIA; SYRIA, MESOPOTAMIA, ASSYRIA, MEDIA, HYRCANIA, BACTRIANA, ARACHOSIA; BABYLONIA, SUSIANA, PARTHIA, ARIA, DRANGIANA; PERSIS, CARAMANIA, GEDROSIA. N-orth part of INDIA, SERICA, SINÆ.

3. *Southern*; containing ARABIA, the two P-eninsulas of INDIA.

AS=ScythiSogd, Col-Ib-Alb; Asm-Arm, Sy-Mēs-Ass-Med-Hy-BactArch,
 Bab-Sus-Parth-AriDran, Pers-Car -Gedro; N.Ind-Se Sin; Ar -P-Ind.

III. AFRICA was anciently divided into,

1. *Northern*; containing MAURITANIA, T-INGITANIA, and CÆSARIENSIS, NUMIDIA, AFRICA *Propria*, LIBYA, (comprehending CYRENAICA and MARMARICA) E-GYPT; GÆTULI, GARADANTES, NASAMONES, PSYLLI.

2. *Middle*; containing LIBYA *DESERTA* or *interior*, comprehending the ATLANTES, PHAURUSII, NIGRITÆ, NUBIA, ÆTHIOPIA.

3. *Southern*; containing the LEUCÆTHIOPEs, EREMBI or TROGLODYTÆ, BLENMYES.

AF = Mau T - Cæs - Numid - Afp - Liby - (Cyr - Mar) - E ;

GætGara - NasPsyl ;

Libydes = AtlántPhauNig - Nub - Æth ; Léucæth - EremBlem.



TABLE XV.

Ancient Italy and Greece, Asia Minor, Syria, and Palestine.

1. Ancient ITALY may be distinguished into two general parts; Gallia Cisalpina to the north, and Italy, primarily so called, to the south.

The several people of Gallia Cisalpina were these:

^x LIGURES, TAURINI, SEGUSIANI, SALASSI, LEPONTII, EUGANEI, RHÆTI, CARNI, ISTRY, VENETI: (south of the P-o these) A-nanes, BOII, LINGONES, SENONES; (north of the Po these) LIBICI, LÆVI, INSUBRES, OROBII, CENOMANI.

Italia, primarily so called, or the south parts of Old Italy, comprehending these following countries and people:

^y ETRURIA or TYRRHENIA, SABINI, LATIUM, CAMPANIA, PICENTINI, G-ræcia magna; ^z Umbria, Pice-

^x Lying in order along the Alps:

^y Lying in order on the Mare Inferum.

^z Lying in order on the Mare Superum.

num, V-estini, Marucici, Frentani, Apulia; ^a MARI-
si, PELIGNI, SAMNIUM, HIRPINI.

CIS.=Lig-Tau-Sé-Sa-Lep-Eug-Rhæt-Car-Is, Vén (P)
A-Bo-Ling-Sen.

Lib-Læv-Ins-Oro-Cen. _____

IT = Etru-Sab-Lá-Ca-Pi-G, Um-Pí-V-Ma-Fr-Ap
Mars-PeliSamn-Hirp.

II. Ancient GREECE was usually divided into five general parts, viz. Macedonia, THESSALIA, EPIRUS, HELLAS or GRÆCIA properly so called, and PELOPONNESUS.

GRÆ=MáTh, Epir-HelPel _____

1. PELOPONNESUS was divided into six parts or regions, viz. ^b ACHAIA, ELIS, MESSENIA, LACONIA, ARGIA or ARGOLIS, ^c ARCADIA.

_____ PELOP=Ach-Eli-Méss-Lac-Ar-Arcad.

2. EPIRUS contained these people and countries, viz. CHAONES, DRYOPES, THESPROTII, CASSIOPÆI, AMPHILOCHI, ALMENE, MOLOSSI, ACARNANIA.

EP = Chao-Dry, Thesprot-Cass-Amphiloc, Al-Mol
Acarnan.

3. HELLAS, or GRÆCIA PROPRIA, (called also Achaia,) was divided into eight parts, viz. DORIS, LOCRISEPICNEMIDIA, ÆTOLIA, LOCRISE-*Ozolæa*; PHOCIS, BÆOTIA, MEGARIS, ATTICA.

GRÆ-PROPRI = Dó-Locep, Æto-Lochróz,-Pho,-Bœ-
Meg-Att.

4. THESSALIA contained these several parts, viz. PELASGIOTIS, ESTIOTIS, THESSALIOTIS, PHTHIOTIS, M-agnesia.

THESS = PelasEstThéss-Phthi-M _____

^a In the inland parts.

^b Lying in order on the Ionian, Ægean, and Cretan sea.

^c In the inland.



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or Lugdunensis, Gallia Aquitana, and Gallia Narbonensis. [Gall=BelCeltAquiNarb.]

2. The inhabitants of ancient Germany were comprehended under four general denominations, viz. Ingævones, Vandali, Istævones, Hermiones.

[GERM=Ing-Vand Ist-Her.]

3. IBERIA, or ancient Spain, was distinguished into three general parts, viz. Tarraconensis, Lusitania, B-œtica [IBERI=TarLuB.]

4. BRITANNIA, according to the last division by the Romans, was distinguished into five parts, viz. Valenciana, Maxima Cæsariensis, Britannia secunda, Flavia Cæsariensis, Britannia prima, [BRIT=Val. Max, Britse-Fla, Britprim.]

GALL = BelCeltAquiNarb. GERM = Ing-Vand
Ist-Her. I = TarLuB.

————— BRIT=ValMax, Britse-Fla, Britprim.

The Memorial Lines for all the ancient Geography.

EUR = Sca-Fe, Sarm, Cimb-Cod; Ger-S, G-Rhœ-V-
No-Pa-D; Ib-Ita-Pill-MœG-Th.

AS = ScythiSogd, Col-Ib-Alb; Asm-Arm, Sy-Mes-
Ass-Med-Hy-BactArch,

Bab-Sus-Parth-AriDran, Pers-Car -Gedro; N.Ind-Se
Sin; Ar -P-Ind.

AF = MauT -Cæs - Numid - Afp-Liby-(Cyr - Mar)-E;
GætGara-NasPsyl;

Libydes = AtlántPhauNig - Nub - Æth; Léucæth-
EremBlem.

CIS = Lig-Tau-Sé-Sa-Lep-Eug-Rhæt-Car-Is, Vén (P)
A-Bo-Ling-Sen.

Lib-Læv-Ins-Oro-Cen —————

IT = Etru - Sah - Lá-Ca-Pi-G, Um-Pí-V-Ma-Fr-Ap
Mars-PeliSamn-Hirp.

GRÆ = MáTh, Epir-HelPel. PELOP = Ach-Eli-
Mess-Lac-Ar-Arcad.

EP = Chao-Dry, Thesprot-Cass-Amphiloc, Al-Mol
Acarian.

GRÆ-PROPRI = Dó-Locep, Æto-Lochróz, -Pho, -Bœ-
Meg-Att.

THESS = Pelas Est Thés-Phthi-M. MACE = Taul-Pæo-
Mygd-Æmath-AmphPi.

Asm = Asp-Bith-Pó-Ga-Capp: Lyci-Pamphy-Cil —
Asp = Phrygimin-MysimiM, Æol Ioni-Lyd-Phryma,
CarDo.

————Gal = PongalaPaphGalap Is-pis.

SYR = SyrpPhœn-Cœlo-Pal. PAL = GálSamaJudæ-
Per Idum.

GALL = BelCeltAquiNarb. GERM = Ing-Vand Ist-
Her. I = TarLuB.

————BRIT = ValMax, Britse-Fla; Britprim.

TABLE XVII.

Remarkable Places in ancient Geography.

ABDERA in <i>Thracia</i>	THESSALONICA in <i>Am-</i>
BERYTUS in <i>Phœnicia</i>	<i>phaxitis</i>
HELICON in <i>Phocis</i>	NICOMEDIA in <i>Bithynia</i>
HALICARNASSUS in <i>Doris</i>	NYSSA in <i>Megaris</i>
in <i>A-sia minor</i>	ACROCERAUNIA mountain in
CHERONÆA in <i>Bœotia</i>	<i>Epirus</i>
CANNÆ in <i>Peucetia</i>	CITHÆRON m. in <i>Bœotia</i>
ARBELA <i>Assyria</i>	HYMETTUS m. in <i>Attica</i>
GRANICUS river of <i>Phrygia</i>	ATHOS m. in <i>Macedonia</i>
MÆANDER river of <i>Lydia</i>	OLYMPUS } mountains in
TAGUS river of <i>Lusitania</i>	PELION } <i>Thessalia</i>
ISSUS promont. of <i>Cilicia</i>	OSSA }
PATMOS one of the <i>Spo-</i>	MANTINEA in <i>Arcadia</i>
<i>rades Islands</i>	EPIDAUROS in <i>Laconia</i>
OLYMPIA in <i>Elis</i>	PELLA in <i>Æmathia</i>
PYLUS in <i>Messene</i>	ACTIUM } in <i>Acarmania</i>
MARATHON in <i>Attica</i>	AMBRACIA }
DELPHOS in <i>Phocis</i>	SMYRNA } in <i>Ionia</i>
SAMOSATA in <i>Comagene</i>	EPHESUS }
DYRRACHIUM in <i>Macedo-</i>	PERGAMUS in <i>Mysia</i>
<i>nia</i>	LAODICEA in <i>Caria</i> .

SARDIS	} in <i>Lydia</i>	CORINTH	} in <i>Achaia</i>
THYATIRA		CENCHRÆÆ	
PHILADELPHIA		ELEUSIS in <i>Megaris</i>	
SARDICA in <i>Thracia</i>		ACERRÆ in <i>Campania</i>	
CHALCEDON in <i>Bithynia</i>		CHALCIS in <i>Ætolia</i>	
CIRTIVM in <i>Numidia</i>		CORFINIVM	} of the <i>Pe-</i> <i>Sulmo</i> } <i>ligni</i>
ILLIBERIS in <i>Hisp. Bœtica</i>		MEMPHIS in <i>Inferior E-gypt</i>	
ANCYRA in <i>Galatia</i>		THEBAIS in <i>Super. E-gypt</i>	
GANGRA in <i>Paphlagonia</i>		MYCENÆ in <i>Argia</i>	
SIRMIUM in <i>Pannonia</i>		PATARA in <i>Lycia</i>	
NEOCÆSAREA in <i>Cappadocia</i>		CHALYBES a people of <i>Galatia</i>	
PHARSALIA in <i>Thessalia</i>		NEMEA in <i>Argia</i>	
*PHILIPPI in <i>Thracia</i>		ADRAMYTTIVM in <i>Mysia</i>	
LEUCTRA in <i>Bœotia</i>		CNIDUS in <i>Doris</i> in <i>A-sia</i>	
CLUSIVM in <i>Etruria</i>		MEDIOLANUM of the <i>In-</i> <i>subres</i>	
BAIÆ in <i>Campania</i>		SYRACUSÆ in <i>Sicily</i>	
TUSCULUM in <i>Latium</i>		PATAVIA of the <i>Veneti</i>	
AQUILEIA of the <i>Carni</i>		ILLIVM in <i>Phrygia minor</i>	
EDESSA in <i>Mesopotamia</i>		CARBALIA in <i>Pamphylia</i>	
RHEGIUM in <i>Calabria</i>		LYCAONIA in <i>Cappadocia</i>	
TOMI in <i>Mœsia</i>		CYZICUM in <i>Mysia</i>	
DAMASCUS in <i>Cælo-S-yria</i>		CUMA in <i>Æolis</i>	
COLOSSÆ in <i>Phrygia</i>		PISIDIA part in <i>Pamphylia</i> , part in <i>G-alatia</i>	
SAGUNTUM in <i>Hispania</i> <i>Tarraconensis</i>		CURES of the <i>Sabini</i>	
BRUNDUSIVM in <i>Calabria</i>		LAVINIUM in <i>Latium</i>	
COMAGENE a region of <i>S-yria propria</i>		ARDEA of the <i>Rutuli</i>	
DODONE a town of the <i>Molossi</i>		PORTUS LIBURNUS in <i>Etru-</i> <i>ria</i>	
SPARTA in <i>Laconia</i>		TEGÆA in <i>Arcadia</i>	
ANTIOCHIA in <i>Pisidia</i>		LUCANI	} in <i>Oenotria</i>
ANTIUM of the <i>Volsci</i>		BRUTII	
AMYCLÆ in <i>Laconia</i>		OENOTRIA part of <i>Græcia</i> <i>M-agna</i>	
ARIMINUM in <i>Umbria</i>			

* Why Philippi is said to be in Macedonia, Acts xvi. 12. see Wells's Geography, chap. 15, and Pearce on the Epistles.



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Æqu-hernlatN, Mutiboi, Ravnumb, Cala-Salme; Vol-AuslatN.

Sab-Sáracenára-fel; Nabathpet, Nom-Scenarab-des.

Tyr-Sidphæn, Hipponum, PalmCœlS, Nolcampa, Tarentsal.

TABLE XVIII.

The correspondence of ancient and present Geography.

REGIONS AND PROVINCES.

Ancient.	Present.	Ancient.	Present.	
SARMATIA [Sarmpon-ta-rusL-]	Poland Great Tartary South part of Russia L-ivonia	DACIA	Moldavia Walachia Transilva.	
		LIBURNIA		Croatia
		ILLYRICUM		Croatia Dalmatia
		CIMBRICA Chersonesus	Jutland	NORICUM
Insula CODANONIA	Zealand	VINDILICIA		Suabia Bavaria
SCANDINAVIA or B-altia	Norway and part of Sweden	RHÆTIA	Grisons Tyrol and part of Italy	
SCYTHIA As. and SOGDIANA	Great T-artary	HELVETII	Switzerland	
ACHAIA or HELLAS	Livadia	ALLOBROGES	Savoy	
EPIRUS	Chimæra	COLCHIS	Mingrelia	
THESSALY	Janna	IBERIA	Georgia	
MÆSIA superior	Servia	ALBANIA		
MÆSIA inferior	Bulgaria	GÆTULIA	Bildulgerid	
PELOPONNESUS	Morea	AFRICA	Tripoli and Tunis	
THRACIA	Romania	propria		
PANNONIA	Hungary	MAURITANIA	Fez and Morocco	

^f Zealand, Funen, and the adjoining isles had the common name of *Insulæ Æmodes*, and were esteemed isles of ancient Germany, being inhabited by the Teutoni, called also Codani.

Ancient.	Present.	Ancient.	Present.
LIBYA pr.	<i>Barca</i>	NUMIDIA nova	<i>Bildulgerid</i>
NUMIDIA	<i>Algiers</i>	SOGDIANA	} <i>Zagatay or Usbec</i>
LIBYA DE- serta	} <i>Zaara</i>	IBERIA	
NIGRITÆ		<i>Negroland</i>	CANTABRIA
TAURICA	} <i>The peninsu- la of little</i>	ALBION	<i>Britain</i>
CHERSO- nesus		<i>Tartary</i>	LIGURES
GARA- mantes	} <i>The Deserts of Zaara</i>	ARMENIA maj.	<i>Turcomania</i>
			ARMENIA min.
		MESOPOTAMIA	<i>Diarbec</i>

The Memorial Lines.

*Sarimpo-ta-rusL, Cimbjut, Codanzeal, Sca-Bswe-no,
Scyth-sog-T,
Achlvad, Epichim, Thessjan, Mæssér-B, Pelomor,
Throm,
Panhung, Dacimol-wa-T, Liburcro, Illyricro-dal,
Norbavar-aus, Vindsua-B, Rhætgrís-tyr-it, Helvswit,
Allóbsav,
Colchming, Iber-albgeor, Gætulbild, Africatrip-tun,
Maufez-mor, Libybarc, Numidalg, Lib-deszara, Nigneg,
Taur-cherstart, Garazaar, Numi-novbil, Sogdzagát,
Ibspain,
Cantabis & Albbrit, Ligugen, Armturc-ala, Mespdi.*

TABLE XIX.

Seas, Straits, Gulfs, Islands, Rivers, Towns.

Ancient.	Present.
Mare Hyrcanum, or CASPIUM	} <i>Sea of Sala or Backu</i>
PONTUS EUXINUS	
ÆGÆAN SEA	<i>Black or Euxine Sea</i>
PROPONTIS	<i>Archipelago</i>
PALUS MÆOTIS	<i>Sea of Marmora</i>
FRETUM GADITANUM	<i>Sea of Azov</i>
BOSPHORUS CIMMERIUS	<i>Strait of Gibraltar</i>
BOSPHORUS THRACICUS	<i>Strait of Caffa</i>
	<i>Strait of Constantinople</i>

Ancient.	Present.
HELLESPONTUS	Strait of the <i>Dardanells</i>
SINUS ADRIATICUS	Gulf of <i>Venice</i>
SINUS SALAMINIUS	Gulf of <i>Engia</i>
SINUS GANGETICUS	Bay of <i>Bengal</i>
SINUS PERSICUS	Gulf of <i>Balsora</i>
SINUS CORINTHIACUS	Gulf of <i>Lepanto</i>
SINUS ARABICUS	<i>Red Sea</i>
FRETUM SICULUM	Straits of <i>Messina</i>
SINUS AMBRACICUS	Gulf of <i>Larta</i>
MARE LIGUSTICUM	Sea of <i>Genoa</i>
SINUS MAGNUS	Bay of <i>Siam</i>
MARE TYRRHENUM	Sea of <i>Tuscany</i>

Islands, Rivers, and Towns.

Ancient.	Present.	Ancient.	Present.
THULE	<i>Iceland</i>	PATMOS	<i>Palmosa</i>
EBUSUS	<i>Yvica</i>	DIOSCORIDES	<i>Zocotra</i>
BALEARES	{ <i>Majorca</i> <i>Minorca</i>	LEMNOS	<i>Stalimene</i>
Ins. ÆOLIÆ	<i>Lipari Isles</i>	GADES	<i>Cadiz</i>
I. FORTUNATÆ	<i>Canaries</i>	CYRNUM	<i>Corsica</i>
§ HESPERIDES	<i>C. Verd</i>	SALAMIS	<i>Coluri</i>
TAPROBANA	<i>Ceylon</i>	CARPATHUS	<i>Scarpanto</i>
COS	<i>Lango</i>	TRINACRIA	<i>Sicily</i>
CRETE	<i>Candy</i>	CYTHERON	<i>Cerigo</i>
CASSITERIDES	<i>Scilly Isles</i>	M. ÆTNA	<i>Gibel</i>
EUBŒA vel	} <i>Negropont</i>	M. VESUVIUS	<i>Soma</i>
CHALCIS		Lacus TRA- simenus	} <i>Lake of</i> <i>Perugia</i>
ITHACA	<i>IlediCompare</i>	RUBICON	
ÆGINA	<i>Engia</i>	PADUS or	} <i>Po</i>
CERNE	^h <i>Madagascar</i>	ERIDANUS	
LEUCAS	<i>St. Maura</i>	ISTER	<i>Danube</i>
LESBUS	<i>Metelin</i>		

§ Called also Gorgades.

^h Madagascar is supposed by some to be the Menuthias of the ancients.



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GEOGRAPHIÁ SACRA.

TABLE XX.

The Plantation of the Earth after the Flood.

And first, the several countries mentioned in holy Scripture, and denominated from some of the posterity of SHEM, viz.

OPHIR, conjectured to be part of the East Indies, viz. Aurea Chersonesus of the ancients [Ophchers]

HAVILAH, part of Susiana and Caramania [Havisus-car.]

ELAM, part of Susiana and Persis [Elasus-pers.]

ASSHUR, or Assyria properly so called, into which Nimrod is said to come and build Nineveh, &c. [Asshur.]

ARAM, part of Syria and Mesopotamia [Arámsy-mes:]

Land of Uz, Judæa peræa and the adjoining parts of Arabia deserta and Petræa [Uzjúp-arad] ;

LUD, or Lydia in Asia minor [Ludlyd]

The Memorial Lines.

Ophchers, Havisus-car, Elasus-pers, Arámsy-mes,
Asshur,

Uzjúp-arad, Ludlyd —————

Countries mentioned in the Scriptures, and denominated from the posterity of JAPHET, (eldest son of Noah,) whose family is supposed to have peopled, besides a considerable part of Asia, all Europe.

MADAI, called by heathen writers Media [Mad]

GOMER, thought to be Albania, on the Euxine Sea [Gomeralb]

TOGARMAH, Cappadocia [Togacap]

ASHKENAZ, Phrygia [Ashkeph]

TUBAL, Iberia in Asia [Tubibéri]

MESHECH, the country lying about the Montes

Moschici, between Colchis and Armenia major. [*Meshéchmosch*]

MAGOG, the parts of *Scythia* adjoining to the plantations of *Meshech*, *Tubal*, and *Gomer* [*Magscythi-mesh*]

JAVAN, ancient Greece [*Javgree*]

ELISHAH, or the Isles of Elisha, the Isles of the *Archipelago* [*Elísharch*]

KITTIM understood of *Italy*, Dan. xi. 30. and of *Macedonia* in the book of *Maccabees* [*Kittita*]

TARSHISH, by Josephus understood to be *Cilicia*, by others *Old Spain*, by others *Carthage* [*Tarshcil*]

The Memorial Lines.

Mad, Gomerab, Togacap, Ashkeph, Tubibéri, Meshéchmosch,

Magscythi-mesh, Javgree, Elísharch, Kittita, Tarshcil.

Countries mentioned in Scripture, denominated from the posterity of HAM (youngest son of Noah) whose family peopled Africa, with the adjoining parts of Asia.

Land of CUSH, (commonly rendered *Æthiopia*), [*Cushæthiop*] under which name seems to have been contained most of Arabia, distinguished into several parts, denominated from the posterity of Cush, as,

SHEBA, *Arabia Felix* [*Shebara-F*]

HAVILAH, part of *Arabia deserta*, next to *Babylonia* [*Havara-d*]

RAMATH and DEDAN, parts on the *Persian Gulf* [*Ra-dédpe-gu*]

MIZRAIM, or *Ægypt* [*MizrÆ*]

LUB or Lybim, that is, *Libya* properly so called [*Lub*]

PHUT, the more remote parts of *Libya* largely taken [*Phutlib*]

Land of CANAAN lying between the river *Jordan* and the *Mediterranean* [*Cánajor-M*]

Land of HAMATH, north part of *Phœnicia*, and adjoining parts of *Syria propria* [*Hamáthphæn-S*]

ARVAD, or Arpad, or the Isle *Aradus*, lying over-against *Hamath* [*Arvhama*]

Land of the PHILISTINES, *Palestine* proper [Philpal]

The Memorial Lines.

Cushæthiop [Shebara-F, Havara-d, Ra-dédpe-gu]
MizrÆ,
Lub, Phutlib, Cánajor-M, Hamáthphœn-S, Arvhama,
Philpal.

TABLE XXI.

Division of the Holy Land.

The kingdom of JUDAH contained the tribes of Judah and B-enjamin [Ju-B]

The kingdom of ISRAEL contained the tribes of	
A-sher, Nephtali, Zebulon, IS-	} west of Jordan
Sachar, half of MANASSEH, DAN,	
E-phraim, Simeon	
REUBEN, G-ad, the other half of	} east of Jordan
M-anasseh	

The several nations were the CANAANITES, the GIRGASHITES, the HITTITES, the HIVITES, the AMORITES, the JEBUSITES, and the P-erizzites.

The Memorial Line.

ISR=A-NeZe -M, IssMa -G, Dan-E -Réub, Si:
Ca-Girg-Hit-Hiv, Am-Je-P.

The Division of the Holy Land in the New Testament compared with the Divisions thereof among the twelve Tribes in the Old Testament.

GALILEE contained A-sher, Nephtali, Z-ebulon, and Issachar [GAL=A-Ne-ZIss]

SAMARIA contained EPHRAIM, with the half of MANASSEH [SAM=ManEph]

JUDÆA contained Dan, parts of Simeon and Judah, with B-enjamin. [JU=DánSi-Ju-B]

IDUMÆA contained the south parts of Simeon and J-udah, and some part of the land of E-dom [IDU=Si-JE].



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The TAIO in Spain falls into the *Atlantic Ocean*
[Taisp-atl-oc]

The IBERUS, or Ebro, in Spain,
The RHODANUS, or Rhone, in
France [Ib-Rhodmed] } fall into the
Mediterranean

The ELBE in Germany falls into the *German Ocean*
[Elbger-oc]

The ODER in Germany falls into the *Baltic* [Odbalt]

IN ASIA.

T-igris and EUPHRATES rise in *Armenia major*, and, having joined streams on the south-east of *Mesopotamia*, fall into the *Sinus Persicus* [T-Eupharm-siP]

JORDAN rising in the border of *Nephtali*, and passing through the lake of *Gennesaret*, falls into the *Salt sea* [Jordneph-salt]

GANGES in *India* falls into the *Bay of Bengal*
[Gán-I-beng]

IN AFRICA.

The NILE, running through the middle of *Egypt*, falls into the *Mediterranean* [Nilmedi]

The SENEGAL runs through *Negroland* into the *Atlantic Ocean* [Sénat]

The Memorial Lines.

Volrus-ca, Dansuab-eux, Rhingris-gerO, Vistpo-ba,
NieP-eux.

Dwinrus-whi, Taisp-atl-oc, Ib-Rhodmed, Elbger-oc,
Odbalt.

T-Eupharm-siP, Gán-I-beng, Jordneph-salt; Nilmedi,
Sénat.

ASTRONOMICA.

SECTION IV.

The Application of this Art to Astronomy and Chronology.

THE *technical* endings affixed to the beginnings of the names of the planets represent the number of miles of their diameters, distances, magnitudes, &c. according to the general key. Where the beginning of the word is *technical*, it is composed of the syllables or letters distinguished in the tables by small capitals.

TABLE I.

The D-iameters, &c. of the Planets in English miles, according to Dr. Derham's Astro-theology.

	English Miles.
LUNA [LuDdapu]	2175
MERCURY [MercúDepok]	2748
MARS [MarDokpu]	4875
VENUS [VeDoneip]	4987
TERRÆ DIAMETER [TerDiapousoi,k]	7967,8
SATURN [SaDní-olu]	93,451
JUPITER [JuDaty-sli]	130,653
SOLIS DIAMETER [SolDiked-úfei]	822,148

The D-iameters of their ORBITS.

SATURN [D-orb-Sátasob-les-teis]	1641.526,386
JUPITER [JuRBkoúl-atoth]	895.134,000
MARS [MaRBese-deid-naz]	262.282,910
TERRÆ [D-orb-Terboid-úze-poul]	172.102,795
MERCURY [MeRBsau-sebth]	66.621,000

	English Miles.
VENUS [VeRBbef-okoi-baf]	124,487,114.
LUNA [D-orb-lunopou-nyl]	479,905
SATURNI ANNULI DIAM. or the diameter of Saturn's ring [Sat-anu-didáz-daul]	210,265
—Ejusdem LATITUDO, or the breadth of Saturn's ring [—latidou-eg]	
TERRÆ SUPERFICIES, or the su- perficial content of the earth [Ter-superann-fof-ezau]	199.444,206
—Ejusdem DIAMETER [Dia- pousoi,k]	7967,8
—Ejusdem ORBITÆ PERIMETER [Permyfy-skau-del]	540.686,225

*The Magnitudes or solid Contents in cubic Miles of
the larger Planets.*

MAGNITUDO.

	Cubic Miles.
TERRÆ [Ter-magnitéso-klaum]	264,856.000,000
SOLIS [Mag-sólisëouúz- noia-mil-mil]	290,971.000,000.000,000.
JOVIS [Mag-jovnez-záb- ezym]	
SATURNI [Sat-magnit-oép- dak & izym]	427.218,300.000,000

1. The Ambit or circumference.

	English Miles.
JOVIS [Am-jovisipou-zot]	379,043
TERRÆ [Am-Tel-yib]	25,031
SOLIS [Am-sole-leid-koit].	2.582,873

The Memorial Lines.

LuDdapu, MercúDepok, MarDokpu, TerDiapousoi,k,
JuDaty, sli, VeDoneip, SaDní-ola, SolDiked-áfei.



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	English Miles.
TERRA [Dis-Terlom]	54.000,000
VENUS [Dista-Velou-znauth]	39.096,000

3. The QUANTITY of matter in the heavenly bodies is in the proportions following :

TERRA [Quan-Tera]	00001
LUNA [Quan-Lun, res]	00000 $\frac{2}{20}$
JUPITER [Quan-Jupsy]	00060
SATURN [Quan-Saturek, ro]	00028 $\frac{1}{4}$
SOL [Quan-Solsau-sny]	66,690

4. The weight (PONDUS) of bodies on the surface of

SATURN [Pon-Saturuts]	536
LUNA [P-Lunsiz]	630
JUPITER [Pon-Jukzo, re]	804 $\frac{1}{2}$
TERRA [Pon-Ternduk, re]	1259 $\frac{1}{2}$
SOL [Pon-Solazth]	10,000

5. The DENSITIES of the same.

SOL [Den-Solag]	100
LUNA [Den-Lunoig]	700
TERRA [Den-Terteip]	387
SATURN [Den-Sasy]	60
JUPITER [Den-Jups]	76

N. B. Mr. Whiston supposes the sun's parallax to be 32". Dr. Derham (with Cassini) 9 sec. and half.

The Memorial Lines.

1. LuDdedi, MércúDepap, MarDekbau, Ter-Diahéze, JuDle-led, VeDanob, SaDot-nel, Sol-Difouf-úzy.

MERCURY [Dist-Merit-ibz-ug]	33.310,500
JUPITER [Dist-Jupifop-usoith]	447.567,000
TERRA [Dist-Terkau-sub-touk]	86.051,398
VENUS [Dist-Vesc-dot-lup]	62.243,557

2. Distat-Satlúï-lozth, Dist-Márke-dodth, Dist-Merez-ouleth,
Dist-Jupideiz-uketh, Dis-Terlom, Dista-Vetou-znauth.
3. Quan-Tera, Quan-Lun, res, Quan-Jupsy, Quan-Saturek-ro,
Quan-Solsau-sny.
4. Pon-Sáturuts, P-Lunsiz, Pon-Jukzo, re, Pon-Ter-aduk-re,
Pon-Soiazth.
5. Den-Solag, Den-Lunoig, Den-Terteip, Den-Sasy, Den-Jups.



TABLE III.

The periodical Times of the R-evolutions of each Planet about the Sun are as follow :

MERCURY in	88	} Days or about	} 3 months.
VENUS	224		
MARS	287		
JUPITER	4333		
SATURN	10759		
			} 7 months $\frac{1}{2}$.
			} 2 years.
			} 12 years.
			} 30 years.

MercReik, SatRazpun, MarsRaukoi, VenRedo, JupRottt,
Merc-Revo-ment, Ver-mep-h, Mars Rand, JupRanbe,
SatRanty.

N. B. Men vel me Mensibus, an Annis, h half.

The Distance of the earth from the sun being divided into 10 parts, or Decimals, the distance of MERCURY from the sun will be as 4 of them, of VENUS as 6, of MARS as 15, of JUPITER as 52, of SATURN as 95.

Tér-Distaz, Méro, Vens, Marsal, Jupiterle, Saturnoul.

The *Sun* is distant from the earth 21600 SEMI-diameters of the earth = 86,051,398 miles.

The Moon $60\frac{1}{2}$ semidiameters = 239,952 miles.

Dist-Sol-sémida-syz = *kau-zub-touk* ———

————— Distat-Lun-semsy, ro = *din-nud*.

The motion of the *Sun* round its aXis is performed in 25 days and 6 hours [*SólXdu,ro*]. The motion of Jupiter round its aXis is performed in 9 hours 56 minutes [*JuXn,us*]; that of the earth in 24 hours: so that the M-otion of the sun round its axis is at the rate of 4262 miles an hour [*SolMfese*]; the M-otion of Jupiter round its axis 38159 miles an hour [*JuMteibun*]; the M-otion of the *Earth* round its axis is 1043 miles an hour [*TerMázfi*].

SolMfese, JuMteibun, TerMázfi, SólXdu,ro, JuXn-us.

The apparent diameter of the sun in summer (*ÆSTATE Solis Diameter*) is 31 M-inutes 40 S-econds [*Æstat-SoDi-míb soz*]

In winter (*HYEME*) 42 M-inutes 47 S-econds [———— *Hye-míd-sop*]

If the sun is supposed to go round the earth, its diurnal motion will be 22,528,366 M-iles in an HOuR [*Sol-m-hode-lek-taus*]

Æstat-So-Di-míb-soz ——— *Hye-míd-sop*; *Sol-m-hode-lek-taus*.

The three Comets, whose periods were thought to have been discovered. Derham's *Astro-Theology*, p. 56.

That which appeared	$\left\{ \begin{array}{l} 1682 \\ 1661 \\ 1680 \end{array} \right\}$	calculated to perform its revolu- tion in	$\left. \begin{array}{l} 75 \\ 129 \\ 575 \end{array} \right\}$	and to appear again	$\left\{ \begin{array}{l} 1758 \\ 1789 \\ 2225 \end{array} \right\}$

Comske-pu sáub-adou sky-loil: puk pein & eëta:

The Memorial Lines.

MercReik, SatRazpun, MarsRaukoi, VenRedo, Jup-Rott,



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	d.	h.	m.	s.	th.
The EPACT [Epacoz-da-b]	10	21	01	00	0
The solar year [Solaris Annus) [Sól-anisú-l-on]	365	05.	49	00	0
Between the VERNAL and AU- tumnal equinox [Vern-autaks- hak-miz]					
Between the AUTUMNAL and VER- nal equinox [Autum-Vernboík- ab-an]	178	11	19	00	0

The METONIC period was invented by Meto, in the year before Christ 430, consisting of 19 years [Metfiz-bou]

The CALIPPIC period was invented by Calippus, in the year before Christ 330, consisting of 76 years [Calipitz-ois]

The DIONYSIAN period was invented by Dionysius Exiguus, Ann. Dom. 527, consisting of 532 years [Diolep-lid]

The JULIAN period was invented by Joseph SCALIGER, consisting of 7980 years [Júl-scalipóuky]

The vulgar year of Christ was in the fourth of the indiction, the tenth of the cycle of the sun, the second of the cycle of the moon.

Indic. erat quarto, decimo. Sol, Luna secundo.

To find the Year of the Julian Period, the Years of the other Cycles being given.

Multiply the cycle of the Sun into 4845 [Sol in okol]

———— the cycle of the Moon into 4200 [Lunfeg]

———— the INDICATION into 6916 [Indicsnas]

Divide the PRODUCT by 7980 [Dív-produpouky]

The remainder is the year.

The Sunday letters which begin every month are frequently known by the two English verses,

At Dover dwells George Brown, &c. (see p. 182.)

But perhaps they may be more readily remembered by the following line, which lays the reader under no necessity of counting the order of the words before he can tell which month they answer to, every month ending with the letter which belongs to the first day of it.

*Ja Fd Máð Aprig Mayb June Julg Aúc Sef Octa
Novéd Def.*

MARCH, MAY, JULY, OCTOBER, have NONES on the 7 day, and the IDES on 15. [Mar-ma-jul-oc = Nop-Idal] The rest (CÆTERI) on the 5 and 13. [Cætl-at]

APRIL, JUNE, SEPTEMBER, and NOVEMBER, have THIRTY (TRIGINTA) days [Ap-jún-se-no = trigint]

Mar-má-jul-oc = Nop-Idal, Cætl-at: Ap-jún-se-no = trigint.

In a year (ANNO) are 365 days, 8765 HOURS, 525,949 MINUTES, 31,556,937 SECONDS.

An = ditaul = Horeipaul = Minlel-non = Secta-lus-outoi.

The motion of the firmament, or fixed stars, is 50" in a year, or a degree in 72 years. According to which rate the motion (called the PLATONIC year) is accomplished in 25,920 years. [An-Plato = dunez]

The twelve signs: ARIES, TAURUS, GEMINI, CANCER, LEO, VIRGO, LIBRA, SCORPIO, SAGITTARIUS, CAPRICORN, AQUARIUS, PISCES.

Ar-ta-ge, Can-leo-vir, Lib-scór-sagi, Capric-aquár-pis.

The Memorial Lines.

Men-Solarly-by-dou, Synodén-be-ff-t, Men-peridoi-p-ot,

Cyc-Lu-min-ha-doi-ta-ll (Anntad) Trop-min-julimab, (biz.)

Lun-ánilo-hei-mok, Epacaz-da-b, Sól-anisú-l-on,
 Vern-autaks-hak-miz, Autum-Vernboík-ab-an. —
 Metfiz-bou, Calipitz-ois, Diolep-lid, Júl-scalipóuky.
Indic. erat quarto, decimo Sol, Luna secundo.
 Sol in okol, Lunfeg, Indicsnas, Dív-produpouky.
 Ja Fd Mád Aprig Mayb June Julg Aúc Sef Octa
 Novéd Def.

Mar-má-jul-oc = Nop-Idal, Cætl-at: Ap-jún-se-no
 = trigint.

An = ditaul = Horeipaul = Minlel-non = Secta-lus-
 outoi.

An-Plato = dunez.

Ar-tá-ge, Can-leo-vir,- Lib-scór-sagi, Capric-aguáç-
 pis.





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TABLE I.

*Hebrew, Attic, Babylonish, Alexandrian, and Roman Money*¹.

	l.	s.	d.
An Attic Talent = 60 M-inas [At- ta = mauz = ezáu-su.] }	206	05	0
An Attic M-ina = 100 Drachms } [Am = drag = t-ei-n]	03	08	9
An Hebrew Talent = 50 Minas = } 3000 Shekels [Hét = mily = shítth = fuz]	450	00	0
An Hebrew M-ina = 60 Shekels } [Hem = shauz = lou]	09	00	0
A Babylonian Talent [Bat = eóz-be-s]	240	12	6
A Babylonian Talent of Gold [Ba- τO = teilz]	3850	00	0
An Attic Talent of Gold [ATO = tig]	3300	00	0
An Hebrew Talent of Gold [HetO = peg]	7200	00	0
An Attic Drachm [AD = dei, ro]	00	00	8 $\frac{1}{4}$
An Hebrew Drachm [Hed = dou]	00	00	9
A Roman Libra = 96 Denarii } [ROL = dous = li]	03	00	0
^m A Roman Talent = 72 Libræ = } [Róm-ta = liboid = das]	216	00	0
An Alexandrian Drachm [Al-drach = sa-ds]		01	6
An Italic Mina [Ita-mí = lt]	3	00	0
A Shekel = 2 Bekas [Shek = Béd = si]		03	0
A Roman Denarius = 4 Sesterces } [RóD = Seso = doi, re]		00	7 $\frac{1}{2}$

¹ See the Preface to Dr. Prideaux's Connection.

^m Others make a Roman Talent = 6000 Denarii = 24 Sester-
tiums = 187l. 10s. [Tal = Dauth = sésdo = laeip-h]

A Sesterce, $\frac{1}{4}$ of a denarius, sc. LLS. (<i>vulgo HS.</i>) duo asses cum semisse [<i>Ses = da-fi, re</i>] a penny three farthings and half a farthing	}	00	$1\frac{3}{4}q$	
Sestertium, or 1000 S-esterces ⁿ [<i>Sath = p-as-t</i>]		7	16	3
Decem sestertium, 10000 Sesterces [<i>Sesbyth = pei-d-s</i>]		78	02	6
Decies sestertium, or 1,000,000 SES- TERCES [<i>Sesteram = oikbe-h</i>]		7812	10	0

DENARIUS (7d. $\frac{1}{2}$) =	}	2	VICTORIATI	[= Vid]
		4	SESTERTII	[= Sef]
		6	OBOLI	[= Obs]
		10	LIBELLÆ	[= Líbaz]
		20	SEMBELLÆ	[= Semdy]
		40	TERUNCII	[= Terunfy]

Den (doi, re) = Vid = Sef = Obs = Líbaz = Semdy = Terunfy.

The Memorial Lines.

Atta = mauz = ezáu-su, AM = drag = t-ei-n, HÉT = mily = shíth = fuz.

HBM = shauz = lou, BAT = eóz-be-s, BATO = teilz, ATO = tig, HETO = pegque.

Ad = dei, ro, Hed = dou, ROL = dous = li, Róm-ta = liboid-das.

Al-drach = sa-ds, Ita-mi = lt, Shek = Béd = si, RÓD = Seso = doi, re.

Ses = da, fi, re, Sath = p-as-t, Sesbyth = pei-d-s, Sesteram = oikbe-h.

Den (doi, re) = Vid = Sef = Obs = Líbaz = Semdy = Terunfy.

ⁿ Dr. Arbuthnot makes the Sesterce a penny three farthings, and three fourths of a farthing; [*Ses = da-fi, tro*] according to which a sestertium will be 8l. 1s. 5d. $\frac{1}{2}$ [*Sath = k-a-l-h*] Decies Sestertium, or 1,000,000 of sesterces = 8072l. 18s. 4d. [*Sestám = kype-sak-do*]

Tal = Dauth = Sésdo = lueip-h, Sath = k-a-l-h, Sestám = kype sak-do.

TABLE II.

Measures of Length.

The method observed in the following tables is, first, to give the ancient measures, weights, &c. in the proportions which they bear to each other; and then the proportion which they bear to those of our own country. To which I subjoin some tables, by which the reader will be enabled to make any calculations of this kind with the utmost ease and readiness.

English Measures of Length.

$$\text{English MILE} = \left\{ \begin{array}{l} 8 \text{ FURLONGS [=Furk]} \\ 320 \text{ P-oles [=Pidz]} \\ 1760 \text{ YARDS [=Yarapauz]} \\ 5280 \text{ F-eet [=Fudeiz]} \\ 63360 \text{ INCHES [=Inautisy]} \\ 190080 \text{ B-arley corns [Banzyeiz]} \end{array} \right.$$

$$\text{Mil} = \text{Furk} = \text{Pidz} = \text{Yarapauz} = \text{Fudeiz} = \text{Inautisy} = \text{Banzyeiz}.$$

	F-eet.	
MILE [=8 furlongs]	= 5280	Mil = Fudeiz
FURLONG [=40 poles]	= 660	Fur = Fsauz
POLE [=5½ yards]	= 16½	Pol = Fas, re
CUBIT [=2 spans]	= 1½	Cub = Fa, re
FATHOM [=2 yards]	= 6	Fat = Fau

$$\text{Mil} = \text{Fudeiz}, \text{Fur} = \text{Fsauz}, \text{Pöl} = \text{Fas, re}, \text{Cub} = \text{Fa, re}, \\ \text{Fät} = \text{Fau}.$$

Grecian Measures of Length.

$$\text{Μίλ-ιον} = \left\{ \begin{array}{l} 8 \text{ Στά-δια [=Στάk]} \\ 800 \text{ Ὀργ-υιαί [=Ὀρeig]} \\ 4800 \text{ Πόδ-ες [=Πόδfeig]} \end{array} \right.$$

Πῆχ-υς = 2 Σπιθαμ-αί.
 Πῆς = 4 Δῶρ-α = 16 Δάκτ-υλοι.



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Roman Measures of Length.

MILLIARE =	{	8 STADIA [=Stak]
		1000 P-ASSUS [=Path]
		4000 PALMIPEDES [=Palmpoth]
		5000 P-EDES [=Puth]
PES =	{	4 PALMI MINORES [=Pal-mino]
		12 UNCIÆ [=Uncad]
		16 DIGITI [=Digitas]
Mil = Stak = Path = Palmpoth. Pes = Pal-mino = Digitas = Uncad.		

MILLIARE (=8 stadia)	=	^{P-edes} 5000		Mil-rom = Puth
STADIUM (=125 passus)	=	625		Stadi = Psel
PASSUS (=4 palmipedes)	=	5		Pass = Pu
		^{DIGITI^s}		
¹ CUBITUS (=1½ pes)	=	24		Cub = Digitef
PALMIPES (=5 palmi)	=	20		Palmíp = Dez
^u PES (=4 palmi)	=	16		Pes = Das
^x PALMUS (=3 unciæ)	=	4		Palm = Do
^y UNCIA	=	1½		Un = Da, re
Mil-rom = Puth, Stadi = Psel, Pass = Pu : Cub = Digitef, Palmíp = Dez, Pes = Das, Palm = Do, Un-Da, re ———				

Jewish Measures of Length.

MILE =	{	2 SABBATH-days' journeys [=Sábate]	
		10 STADIA [=Staz]	
		4000 CUBITS [=Cubitoth]	
CUBIT =	{	2 SPANS the greater	} [=Spanë-i]
		3 SPANS the less	
		6 PALMS [=Palmau]	
		24 DIGITS [=Digitef]	

^s Some divide the *Digitus* into 4 *Grana*.

^t Some use *Ulna* for *Cubitus*. Pliny takes them for different measures; his *Ulna* answers to the Greek 'Οἰγυιά.

^u *Pes* was divided, as the *As*, into 12 parts; hence *Dextans* = 10 inches, *Dodrans* = 9 inches, &c.

^x Called *Palmus minor*, to distinguish it from a greater, which some authors make equal to 12 digits.

^y Called sometimes *Pollex*.

Cub = Spanë-i = Palmau = Digitef. Mil = Sábate = Staz = Coth.

	CUBITS	
Eastern MILE (= 10 stadia)	4000	Mil = Coth
STADIUM =	400	Stad = Cubitog
² SCHÆNUS OF <i>Chebal</i> =	80	Schœn = eiz
ARABIAN POLE =	8	Ara-Pol = k
EZEKIEL'S REED, OR <i>Kaneh</i> =	6	Eze-Ree = s
FATHOM =	4	Fath = o

	DIGITS	
CUBIT, OR <i>Ammah</i> =	24	Cub = Digitef
² SPAN, OR <i>Zereth</i> =	12	Span = Dad
PALM, OR <i>Tophach</i> =	4	Palm = Do

————— Mil = Coth,
 Stad = Cubitog, Schœn = eiz, Ara-Pol = k, Eze-Ree = s,
 Fath = o : Span = Dad,
 Cub = Digitef, Palm = Do : Para = milt ———

N. B. The PARASANG is a Persian measure, consisting of 30 stadia = 3 MILES [Para = milt]

A day's journey is an uncertain measure, but amongst the Jews was generally reckoned 24 miles.

The Memorial Lines.

Mil = Furk = Pidz = Yarapauz = Fudeiz = Inautisy = Bunzyeiz.

Mil = Fudeiz, Fur = Fsauz, Pol = Fas, re, Cub = Fa, re, Fat = Fau.

Μίλ = Στάκ = 'Ορειγ = Πόδfeig, Πήχ = Σπιθαμε, Πῆς = Δῶρο = Δάκλις.

Στάδι = Παυγ & 'Οργ = Παυ, Πήχ = Δef, Πυγ = Δαkque Πυγών = Δez.

Πῆς = Δάκλις, Σπιθα = Dad, 'Ορθ = Δab, Λίχ = Δάκby, Δῶ = Δάκλο.

Mil = Stak = Path = Palmpoth. Pes = Pal-mino = Digitas = Uncad.

² Called also *Pathil*.

² There is likewise another word, *Gomed*, which the LXX render Σπιθαμή.

Mil-rom = Puth, Stadi = Psel, Pass = Pu : Cub = Digitef,
 Palmíp = Dez,
 Pes = Das, Palm = Do, Un = Da, re ———
 Cub = Spanë-i = Palmau = Digitef. Mil = Sábate = Staz
 = Coth.

————— Mil = Coth,
 Stad = Cubitog, Schœn = eiz, Ara-Pol = k, Eze-Ree = s,
 Fath = o : Span = Dad,
 Cub = Digitef, Palm = Do : Para-milt ———

TABLE III.

The Proportion of the foregoing Measures to English Measures.

	Inches.	Decimals.
GRECIAN D-igit [GréD = ,pulo]	0	,75546875
ROMAN D-igit [RoD = ,peldu]	0	,72525
^b JEWISH D-igit [JewD = ,nad]	0	,912
	Feet.	Decimals.
GRECIAN F-oot [GreF = a, zypdou]	1	,00729 $\frac{1}{2}$
ROMAN F-oot [RoF = ,naup]	0	,967
HEBREW C-ubit [HeC = a, kef]	1	,824
GRECIAN C-ubit [GreC = a, laznil]	1	,510935
ROMAN C-ubit [RoC = b, olzu]	1	,4505
	Inches.	Decimals.
GRECIAN FOOT [Grec-Fo = be, zeipu]	12	,0875
ROMAN F-oot [RomF = ab, syf]	11	,604
HEBREW C-ubit [HeC = da, keik]	21	,888
GRECIAN C-ubit [GreC = bei, bib]	18	,13125
ROMAN C-ubit [RoC = boi, fys]	17	,406
	Eng. Miles.	Decimals.
^c GRECIAN M-ile [GreM = ,pautzoun]	0	,763099

^b In reducing the Jewish Measures, I have followed Bishop Cumberland, who makes the cubit = 21,888 inches. Dr. Arbuthnot thinks it plain that there were two sorts of cubits, the sacred one and the profane or common one; the former exceeding the latter by a hand's breadth, or three inches. The profane cubit he makes equal to 17,82 inches; the sacred one = 20,79 inches.

^c Dr. Arbuthnot makes the Grecian mile equal to 805,8 $\frac{1}{2}$ English paces; which, agreeably to my own method, I have here



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^d Egyptian "Αρερα = Roods 3. P-oles 2. F-eet 55 $\frac{1}{4}$ ["Αρε = Ri-Pe-Ful,ro]		Eng. Acres.	Decim.
Jugerum [Jug = ,sakdo]		0 ,618240	
Πλέθρον [Πλέθ = ,etyst]		0 ,230632	
Egyptian "Αρερα = ["Αρερα = ,oist]		0 ,763768	
	Greek Sq. Feet.	Eng. Sq. F.	Decim.
Πλέθρον = :	10000	= 10146	,3650
"Αρερα $\frac{1}{2}$ Πλέθρον =	5000	= 5073	,1825
Egyptian "Αρερα = 10000 Squ. Cub. =		33269	,7600
	Rom. Sq. Feet.	Sq. F.	Decim.
^e Actus minimus 120 × 40 =	4800	= 4488	,4272
Actus Quadratus 120 × 120 =	14400	= 13465	,2816
Clima 60 × 60 =	3600	= 3366	,3204
Versus 100 × 100 =	10000	= 9350	,8900
^f Jugerum = 2 Actus Quad. =	28800	= 26930	,5632
Uncia $\frac{1}{12}$ of the Jugerum =	2400	= 2244	,2136

The Memorial Lines.

Ac = sFotlauz, R = azkouz, Pol = doid,el: Ac = Yar-
oko:que:

GreFq = á,zafauts, RoFq = nil, HeCq = i,tesnois——

Jug = Ré-Pak-Fely ,zu: Πλέθ = Pís-Fdol: "Αρε = Ri-
Pe-Ful,ro.

Jug = ,sakdo, Πλέθ = ,etyst, "Αρερα = ,oist ——

TABLE V.

Measures of Capacity.

English Wine Measure.

$$\text{Tun} = \begin{cases} 2 \text{ B-uts} & [= \text{Be}] \\ 3 \text{ Puncheons} & [= \text{Pul}] \\ 4 \text{ Hogsheads} & [= \text{Hof}] \\ 6 \text{ TIERCES} & [= \text{Tiers}] \end{cases}$$

^d The Grecian "Αρερα was $\frac{1}{2}$ of the Πλέθρον.

^e Actus is the length of one furrow, so far as a plough goes before it turns, in length 120 feet.

^f The Jugerum was divided, like the As, into twelve parts.

$$\text{TUN} = \left\{ \begin{array}{l} 8 \text{ BARREIS} \quad [= \text{Bark}] \\ 14 \text{ R-undlets} \quad [= \text{Raf}] \\ 252 \text{ GALLONS} \quad [= \text{Galdud}] \\ 2016 \text{ PINTS} \quad [= \text{Pidzas}] \\ 58212 \text{ SOLID INCHES} \quad [= \text{Inukdad}] \end{array} \right.$$

Tun = Be = Put = Hof = Tiers = Bark = Raf = Galdud
= Pidzas = Inukdad.

English Corn Measure.

QUARTER = Bushels 8 [Quar = Busk]

$$\text{BUSHEL} = \left\{ \begin{array}{l} 4 \text{ PECKS} \quad [= \text{Peco}] \\ 8 \text{ GALLONS} \quad [= \text{Galk}] \\ 64 \text{ PINTS} \quad [= \text{Pinso}] \end{array} \right.$$

Bush = Peco = Galk = Pinso : Quar = Busk.

		Cubic Inches.
GALLON of W-ine	[GállW = eta]	231
♁ GALLON of C-orn	[GalC = doid ,ro]	272 $\frac{1}{4}$
PINT DRY measure	[Pin-dr = if ,rid]	34 $\frac{1}{2}$
PINT LIQUID measure	[Pin-liquid = ek ,prei]	28 $\frac{7}{8}$

Hogshead = $\left\{ \begin{array}{l} 63 \text{ GALLONS} \quad [= \text{Galsi}] \\ 504 \text{ PINTS} \quad [= \text{Pinúzo}] \end{array} \right.$

GállW = eta, GalC = doid ,ro, Pin-dr = if ,rid, Pin-liquid = ek ,prei.

Hog = Galsi-Pinúzo.

Grecian Measures of Capacity.

$$\text{Μετ-ρηλῆς} = \left\{ \begin{array}{l} 12 \text{ Χ-όες} \quad [= \text{Χάδ}] \\ 72 \text{ Ξ-έσαι} \quad [= \text{Ξοιδ}] \\ 144 \text{ Κοτύλ-αι} \quad [= \text{Κοτύλαff}] \end{array} \right.$$

$$\text{Μέδ-ιμνος} = \left\{ \begin{array}{l} 48 \text{ Χοιν-ικέες} \quad [= \text{Χοινοκ}] \\ 72 \text{ Ξέσαι} \quad [= \text{Ξέσαι}] \\ 144 \text{ Κοτύλ-αι} \quad [= \text{Κοτύλαff}] \end{array} \right.$$

♁ This is the common received content of a corn gallon, and according to which the following computations are made; but strictly, by Act of Parliament, the corn gallon contains but 268 ,8 cubic inches. By experiment it appears also, that the standard wine gallon doth contain but 224 cubic inches.—See Ward's Mathematician's Guide, Part I. Chap. 3.

Μετ = Χάδ = Ξοιδ = Κοτύλαff, Μέδ = Χοινολκ = Ξέσρεque
= Κοτύλαff.

Ξέσ-ης =	}	2 Κοτύλ-αι	[=Κοτύλε]
		8 Ὀξύ-θαφα	[=Ὀξύκ]
		12 Κύαθ-οι	[=Κύαθbe]
		48 Μύσρ-α	[=Μύσροκ]
		120 Κοχλ-ιάρια	[=Κοχλαυz]

Ξέσ = Κοτύλε = Κοχλαυz = Ὀξύκ = Κύαθbeque = Μύσροκ.

		Ξέσ-αι	
ἡ Μετ-ρητῆς 1. (=12 Χόες)	=	72	Μετ-Ξέσοιδ
Χῆς 1. (=12 Κοτύλαι)	=	6	Χῆς = Ξαυ
Μέδιμ-νος d.	=	72	Μέδιμ = Ξοιδ
Χοῖν-ιξ d.	=	1½	Χοῖν = Ξα,τε

		Μύσρα	
Ξέσ-ης (=12 Κύαθοι)	=	48	Ξέσ = Μύσροκ
Κοτύ-λη (=6 Κύαθοι)	=	24	Κοτύ-Mef
Ὀξύθ-αφον (=3 Κόγχαι)	=	6	Ὀξύθ = Μαυ
Κύα-θος (=5 Χῆμαι)	=	4	Κύα = Μο
Κόγχ-η (=5 Κοχλιάρια)	=	2	Κόγχ-Me

Μετ = Ξέσοιδ, Χῆς = Ξαυ, Μέδιμ = Ξοιδ, Χοῖν = Ξα,τε.

Ξέσ = Μύσροκ, Κοτύ = Mef, Ὀξύθ = Μαυ, Κύα = Μο, Κόγχ
= Me.

Roman Measures of Capacity.

CULEUS =	}	20 AMPHORÆ	[= Amphez]
		40 URNÆ	[= Urnoz]
		860 CONGIÏ	[= Congbauz]
SEXTARIUS =	}	2 HEMINÆ	[= Hemine]
		4 QUARTARIÏ	[= Quartarf]
		8 ACETABULA	[= Acetak]
		12 CYATHI	[= Cyathbe]
		48 LIGULÆ	[= Liglok]

Cul = Amphez = Urnoz = Congbauz

Sext = Hemine = Quartarf = Acetak = Cyathbeque
= Liglok.

^h Called also Ἀμφορεύς, and Κάδος.

N. B. l. denotes measures for liquid things, d. measures for dry things, the rest are used as measures for both.



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Chom = Bath = Ephaz, Let = Ephu : Bath-Eph = Cabak,
 Hín = Cabi, Sea = Cabs.
 Hín = Lad = Cas. Cab = Gez————

The Memorial Lines.

Tun = Be = Put = Hof = Tiers = Bark = Raf = Galdud =
 Pidzas = Inukdad.

Bush = Peco = Galk = Pinso : Quar = Busk : Hog =
 Galsi = Pinúzo.

GállW = eta, GalC = doid ,ro, Pin-dr = if ,rid, Pin-
 liquid = ek ,prei.

Μετ = Χάδ = Ξοιδ = Κοτύλαff, Μέδ = Χοινok = Ξέσρεque =
 Κοτύλαff.

Ξέσ = Κοτύλε = Κοχladz = 'Οξύk = Κυάθbeque = Μυσροk.

Μετ = Ξέσοιδ, Χῆς = Ξαυ, Μέδιμ = Ξοιδ, Χοϊν = Ξα, re.

Ξέσ = Μύσροk, Κοτύ = Μεφ, 'Οξύβ = Μαυ, Κύα = Μο, Κόγγ
 = Με.

Cul = Amphéz = Urnoz = Congbauz————

Sext = Hemine = Quartarf = Acetak = Cyathbeque =
 Liglok.

Cul = Sexnauz, Amph = Sok, Urn = Sextef, Congi =
 Sau, Mod = Sas.

Sext = Ligulok, Hemi = Lef, Quart = Lad, Acetab =
 Lau, Cyath = Lo.

Bath = Seat = Hins = Omeraz = Cak = Logpe = Caphnau
 = Gachaltiz.

Chom = Bath-Ephaz, Let = Ephu : Bath-Eph = Cabak,
 Hín = Cabi, Sea = Cabs.

Hín = Lad = Cas. Cab = Gez.



TABLE VI.

Measures of Capacity reduced to English Measures.

A PINT DRY	=	34 ,0312	} Cubic inches
A PINT LIQUID	=	28 ,875	

———— Pin-dr = if ,zibe, Pin-liquid = ek ,koil.

DRY.

	Pints.	Inches.	Decim.
ⁱ Μέδιον-Θ [Μέδιον=οιζ-τ]	70	03	,501
MODIUS [Modi=bau-p]	16	07	,68
ΕΡΗΑΗ [Eph=ub-ad]	51	12	,107
Ξέσ-ης [Ξέσ=z-it]	00	33	,158
SEXTARIUS [Sextar=a]	01	00	,43
Cab [Cab=d-ek]	02	28	,432

LIQUID.

	ints.	Inches.	Decim.
^k Μετρη-της [Μετρη=eid-an]	82	19	,626
Amphora [Am=up-az]	57	10	,66
^l ΒΑΤΗ [Bath=sy-bu]	60	15	,2
Ξέσης [Ξέσ=a-f]	01	04	,283
Sextarius [Sext=a-u]	01	05	,636
^l ΛΟΓ [Log=z-do]	00	24	,2735
		Bushels.	Decim.
Μέδ-ιονΘ [Μέδ=a-zous]		1	,09612
MODIUS [Mod=,elild]		0	,253525
ΕΡΗΑΗ } [Eph=,kydoti]		0	,802433
Chomer }			
		Gallons.	Decim.
Μετρη-της [Μετρη=az ,til]		10	,335
ΑΜΦΙΟΡΑ [Amph=oi ,apad]		7	,1712
ΒΑΤΗ [Bath=p ,laul]		7	,5658
CONGIUS [Con=,kousteil]		0	,896385
		Pints.	Decim.
Ξέσ-ης liquid [Ξέσ=a ,lok]		1	,1483
Ξέ-σης dry [Ξέ=z ,noif]		0	,97447

ⁱ Besides the Attic Medimnus, there was a *Medimnus Georgicus*, equal to 6 Roman *Modii*.

^k The Metretes of Syria was equal to the Roman *Congius* = 7,171 pints.

^l The Jewish measures are here, according to Bishop Cumberland, from the Rabbins: but Bishop Hooper, from Josephus, makes the Jewish Bath equal to the Attic *Μετρητης*, and consequently the Log equal to the *Ξέσης*. Dr. Arbuthnot has given us tables according to both, but seems to prefer Bishop Hooper's account to the other.

	Pints. Decim.
SEXTARIUS liquid [Sext= <i>á</i> , <i>boulak</i>]	1,19518
SEXTARIUS dry [Sext= <i>a</i> , <i>zafei</i>]	1,0148
CAB liquid [Cab= <i>t</i> , <i>isd</i>]	3,36257
CAB dry [Cab= <i>e</i> , <i>kóp</i>]	2,84731
LOG [Log= <i>z</i> , <i>eif</i>]	0,84065

The Memorial Lines.

————— Pin-dr=*if*, *zibe*, Pin-liquid=*ek-koil*.
 Μέδιον = *oiz-t*, Modi=*bau-p*, Eph=*ub-ad*, Ξέσ = *z-it*,
 Sextar=*a*, Cab=*d-ek*.
 Bath=*sy-bu*, Μετρ=*eid-an*, Am=*up-az*, Ξέσ = *a-f*,
 Sext=*a-u*, Log=*z-do*.
 Eph = *kydoti*, Mod = *elild*, Μέδ = *a*, zous: Ξέ = *z*, *noif*,
 Cab = *e*, *kópque*.
 Amph = *oi*, *apad*, Bath = *p*, *laul*, Μετρ = *az*, *til*: Ξέσ
 = *a*, *bok*, Cab = *t*, *isd*,
 Sext = *á*, *boulak*: Con = *kousteil*: Sext = *a*, *zafei*, Log
 = *z*, *eif*.

TABLE VII.

Weights.

N. B. L or Li stands for Libra or pound, Oz. for ounce, Lit Pound T-roy, L-aver Pound AVERDupois.

A Pound T-roy = 12 ounces [LIT = Ozad]

An Ounce Troy = { 8 DRAMS [= Drák]
 24 SCRUPLES [= Scref]
 20 P-enny weights [= Pez]
 480 GRAINS [= Grafky]

^m A Pound Averdupois = { 16 Ounces [= Ozus]
 256 DRAMS [= Drels]

LIT = Ozad, Oz = Drák = Scref = Pez = Grafky. Láv = Ozas, Láv = Drels.

^m According to the proportion laid down by Mr. Greaves, viz. that the averdupois pound is to the troy pound as 175 to 144: in Dr. Arbuthnot's tables it is as 17 to 14, which is a very inconsiderable difference, being but $4\frac{2}{7}$ grains less in the pound.



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	GRANA Σιτάρια.
LIBRA Λίτρα [Lib=grasnad]	6912
UNCIA Ούγγια [Unc=lois]	576
ⁿ DRACHMA Δραχμή [Drachm=oid]	72
SCRUPULUM Γράμμα [Scrupul=ef]	24
• OBOLOS Ὀβολος [Obol=ad]	12
SILIQUA Κεράτιον [Sil=f]	4

Lib=grasnad, Unc=lois, Drachm=oid, Scrupul=ef,
Obol=ad, Sil=f.

Divisio Assis.

	Unc.		Unc.
AS	12		SEMIS
DEUNX	11		QUINCUNX
DEXTANS	10		TRIENS
DODRANS	9		QUADRANS
BES	8		SEXTANS
SEPTUNX	7		UNCIA

As = dēu-dex—dod-bes—septún-semi—quin·tri-qua—sext-unc.

The Memorial Lines.

Λίτ=Qzad. Oz=Drák=Scref=Pez=Grafky. Láv
= Ozás, Láv=Drels.

Λίτ=Grupauz, Oz=oky, Dr=auz, Pen=gref, Scrup
=dy, Lav=oithque,

OzAv=oloi,l—————

Ατ=Mauz=Drauth: Ηετ=Shith: Ηετ-pond=Mauz:
Shek=Beke=Zuf=Gez.

Lib=Unad——

Un = Duelt = Sicilo=Ses = Drak: Drach = Script =
Silak=Obs=Groid.

ⁿ N. B. The Romans divided their ounce into 7 denarii as well as 8 drachms; and since they reckoned their denarius equal to the Attic drachm, this will make the Attic weights $\frac{1}{8}$ heavier than the correspondent Roman weights.

• The Ὀβολος was divided into 6 Χαλκοὶ or Æreoli, and the Χαλκός into 7 Λεπτα or Minuta. [Ὀβ=Χαλς, Χαλκ=Λεπτοι.]

The Ἡμίωβολον, Ἡμίδραχμον, Δίδραχμον, &c. are evident from their names.

Lib = *grasnad*, Unc = *lois*, Drachm = *oid*, Scrupul = *ef*,
 Obol = *ad*, Sil = *f*.
 As = *dëu-dex—dod-bes—septún-semi—quin-tri-qua*
—sext-unc.



TABLE VIII.

Ancient Weights reduced to English Troy Weights.

	Troy Grains. Decim.
ROMAN Ounce Rom-oz = <i>fik</i>	438 ,00
SHEKEL [Shek = <i>ebou</i>]	219 ,00
PROMAN D-rachm [ROD = <i>uf ,pu</i>]	54 ,75
DENARIUS [Den = <i>se, loi</i>]	62 ,57
Attic D-rachm [AD = <i>sei f</i>]	68 ,4
	lib. oz. p-w. gr.
ROMAN L-ibra [ROL = <i>az-an</i>]	10 19 00
HEBREW M-aneh [HEM = <i>e-t-oi-be</i>]	02 03 07 12
HEBREW T-alent [HET = <i>búf-yz-al</i>]	114 00 15 00
Ancient Attic M-ina [ATM = <i>a-d-u</i>]	01 02 05 00
Ancient Attic T-alent [ATR = <i>pa-t</i>]	71 03 00 00

p So Bishop Cumberland, from the Rabbinical accounts. But Bishop Hooper, from Philo and Josephus, makes it equal to the Attic *Stater*, or Tetradrachm = 68 ,4 + 4, or 67 + 4 grains.

q According to the weight of the standard mina of Solon, Bishop Hooper supposes, that whilst the money drachm fell gradually from 68 ,4 to 62, 57 grains, the ponderal drachm continued still the same, which I have therefore here retained. Dr. Bernard lays the middle sort of Attic drachms at 66 grains, which (Table I.) are accordingly valued at 8*d.* $\frac{1}{4}$. But the weight of the Attic drachm, under the first Roman Emperors, and for some considerable time before, was about 62 ,57 grains; and upon this drachm, and the equality of it with the Roman denarius, most of the computations in classic authors are founded.

r The common Attic mina was supposed equal to 12 $\frac{1}{2}$ Roman ounces. The mina medica was 16 Roman ounces, and exactly the weight of our averdupois pound.

The Memorial Lines.

Rom-oz = *fik*, Shek = *ebou*, Rod = *uf , pu*, Den = *sc , loi*,
 · Ad = *sei , f*.

HET = *báf-yz-al*, ROL = *az-an*, Hem = *e-t-oi-be*, ATM
 = *a-d-u*, ATτ = *pa-t*.



TABLE IX.

*Jewish and Roman Money, according to Bishop
 Cumberland.*

	l.	s.	d.
HEBREW M-ina [HEM = <i>p-a-l</i>]	7	01	05
HEBREW T-alent [HET = <i>tút-ab-az-h</i>]	353	11	10½
Golden DARICK = 12 G-erachs [Dar = <i>Gád=la-do</i>]	1	00	04
HEBREW T-alent of gold (Or) [He- τO = <i>ufoil-ba-p-h</i>]	5475	11	07½
SHEKEL [Shek = <i>sé-do,ro</i>]		02	04¼
Silver DENARIUS [Den = <i>dci-t</i>]		00	07¾
ASSARIUM F-arthing and half [Assar = <i>Fah</i>]			
A QUADRANT $\frac{3}{4}$ of a farthing [Quád = <i>iro</i>]			
A MITE $\frac{1}{3}$ of a F-arthing [Mit = <i>riF</i>]			

The Memorial Lines.

Hem = *p-a-l*, HET = *tút-ab-az-h̄*, Dar = *Gád = la-do*,
 HET O = *ufoil-ba-p-h*.

Shek = *sé-do,ro*, Den = *doi-t*, Assar = *Fah*, Quád = *iro*,
 Mit = *riF*.



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But as the common computation in classic authors is by sesterces and drachms, I shall exemplify more particularly the foregoing observations in the two tables drawn up for them.

Sesterce = 1*d.* 3*f.* $\frac{3}{4}$
 in decimal fractions
 of a pound sterling
 = ,00807291667
 [Sest = *zykypenasso*]

A-ttic D-rachm, or
 Roman denarius,
 = 7*d.* 3*f.* in deci-
 mal fractions of a
 pound sterling
 = ,032291667
 [Ad = *zidenasso*]

1 Sestertius.	Decem Sestertii or Nummi.	Centum Sestertii.	Sestertium, or 1000 HS.	Decem Sestertia, or 10000 HS.	Centum Sestertia, or 100000 HS.	Decies Sestertium, or 1 Million HS.	Centies Sestertium, or 10 Millions HS.	Millies Sestertium, or 100 Millions HS.	Decies Millies, or 1000 Millions HS.	Centies Millies, or 10000 Millions HS.	Millies Millies, or 100000 Millions HS.
1	,0	0	8	0	7	2	9	1	6	6	7
2	,0	1	6	1	4	5	8	3	3	3	3
3	,0	2	4	2	1	8	7	5	0	0	0
4	,0	3	2	2	9	1	6	6	6	6	7
5	,0	4	0	3	6	4	5	8	3	3	3
6	,0	4	8	4	3	7	5	0	0	0	0
7	,0	5	6	5	1	0	4	1	6	6	7
8	,0	6	4	5	8	3	3	3	3	3	3
9	,0	7	2	6	5	6	2	5	0	0	0

1 Drachm.	10 Drachms.	100 Drachms, or 1 Mina.	1000 Drachms, or 10 Minae.	1 Myriad (= 10000 Dr.) or 100 Minae.	10 Myriads (= 100000 Dr.) or 1000 Minae.	100 Myriads (= 1 Million Dr.) or 10000 Minae.	1000 Myriads (= 10 Mill. Dr.) or 100000 Minae.	10000 Myriads of Drachms, or Myr. of Myriads	10 Myriads of Myriads of Drachms.
1	,0	3	2	2	9	1	6	7	
2	,0	6	4	5	8	3	3	3	
3	,0		6	8	7	5	0	0	
4	,1		9	1	6	6	6	7	
5	,1		1	4	5	8	3	3	
6	,1		3	7	5	0	0	0	
7	,		6	0	4	1	6	7	
8	,	9	8		3	3	3	3	
9	,2	9	0	3	2	5	6	0	

According to the observations before laid down, it is evident that

	Lib.	Decim.
1 Sestertium, or 1000 HS.	=	008 ,07291667
2 Sestertia, or 2000 HS.	=	016 ,14583333
3 Sestertia, or 3000 HS.	=	024 ,21875

And so down to 9 sestertia; the three first figures of the table being integers, the rest decimals. So,

	Lib.	Decim.
* Decies Sestertium, or 1 Mill. HS.	=	8072 ,91667
Vicies, or 2 Million HS.	=	16145 ,83333
Tricies, or 3 Million HS.	=	24218 ,75 &c.

Hence the value of most of the sums mentioned in classic authors may be discovered from the tables at first sight; the rest by the help only of addition. Thus,

What is the Value of the Centies Quinquagies HS?

	Lib.	Decim.
Centies HS	=	80729 ,1667
Quinquagies	=	40364 ,5833
<hr/>		
Centies Quinquagies	=	121093 ,75
<hr/>		

What is the Value of 375 Attic Drachms?

300 Drachms	=	9 ,6875
70 Drachms	=	2 ,26041667
5 Drachms	=	0 ,16145833
<hr/>		
375 Drachms	=	12 ,109375
<hr/>		

What is the Value of 51 Myriads of Drachms?

50 Myriads	=	16145 ,83333
1 Myriad	=	322 ,91667
<hr/>		
51 Myriads	=	16468 ,75
<hr/>		

Note, That the table for drachms or denarii, will also serve for minæ and for asses, remembering that a denarius is equal to 10 asses, and a mina to 100 drachms. Thus,

* With the numeral adverb, *Centena Milia* are always understood.

Æris (sc. Assium) Millia X = 1000 } denarii	Lib. Decim.
Æris Millia XXV = 2500 denarii =	32 ,291667
Æris Millia LXXV = 7500 denarii =	80 ,72916
	242 ,1875

What has been already said will easily be applied to those which follow :

^t Attic drachm = 8d. $\frac{3}{4}$	^t Attic talent = 206l. 5s.	^u Attic talent = 193l. 15s.
<i>l. decim.</i>	<i>l. decim.</i>	<i>l. decim.</i>
1 ,034375	1 206 ,25	1 193 ,75
2 ,068750	2 412 ,50	2 387 ,50
3 ,103125	3 618 ,75	3 581 ,25
4 ,137500	4 825 ,00	4 775 ,00
5 ,171875	5 1031 ,25	5 968 ,75
6 ,206250	6 1237 ,50	6 1162 ,50
7 ,240625	7 1443 ,75	7 1356 ,25
8 ,275000	8 1650 ,00	8 1550 ,00
9 ,309375	9 1856 ,25	9 1743 ,75

^x Shekel
= 2s. 7d.

^x Hebrew talent
= 387l. 10s.

Heb. tal. gold
= 16 tal. silver

<i>decim.</i>	<i>l. decim.</i>	<i>l.</i>
1 ,129166667	1 387 ,5	1 6200
2 ,258333333	2 775 ,0	2 12400
3 ,387500000	3 1162 ,5	3 18600
4 ,516666666	4 1550 ,0	4 24800
5 ,645833333	5 1937 ,5	5 31000
6 ,775000000	6 2325 ,0	6 37200
7 ,904166666	7 2712 ,5	7 43400
8 1,033333333	8 3100 ,0	8 49600
9 1,162500000	9 3487 ,5	9 55800

^t According to Dr. Bernard.

^u According to Dr. Arbuthnot.

^x The shekel is here valued equal to 4 Attic drachms, according to Josephus; and this valuation Dr. Arbuthnot has followed in his Dissertations, though his tables are according to Bp. Cumberland. The talent = 3000 shekels.



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Grecian Sq. Foot		Πλίθρον		Jugerum	
Sq. Feet	decim.	Acre	decim.	Acre	decim.
1	1 ,0146365	1	0 ,230632	1	0 ,61824
2	2 ,0292730	2	0 ,461264	2	1 ,23648
3	3 ,0439095	3	0 ,691896	3	1 ,85472
4	4 ,0585460	4	0 ,922528	4	2 ,47296
5	5 ,0731825	5	1 ,153160	5	3 ,09120
6	6 ,0878190	6	1 ,383792	6	3 ,71944
7	7 ,1024555	7	1 ,614424	7	4 ,32768
8	8 ,1170920	8	1 ,845056	8	4 ,94592
9	9 ,1317285	9	2 ,075688	9	5 ,56416

Egyptian *Αγυρα		Σίτηs dry		Sextarius dry	
Acre	decim.	Pint	decim.	Pint	decim.
1	0 ,763768	1	0 ,97447	1	1 ,0148
2	1 ,527536	2	1 ,94894	2	2 ,0296
3	,291304	3	2 ,92341	3	3 ,0444
4	,055072	4	3 ,89788	4	4 ,0592
5	,818840	5	4 ,87235	5	5 ,0740
6	2 ,582608	6	5 ,84682	6	6 ,0888
7	5 ,346376	7	6 ,82129	7	7 ,1036
8	6 ,110144	8	7 ,79576	8	8 ,1184
9	6 ,873912	9	8 ,77023	9	9 ,1332

Cab dry		Medimnus		Modius	
Pint	decim.	Bushel	decim.	Bushel	decim.
1	3 ,84731	1	1 ,09612	1	0 ,253525
2	7 ,69462	2	2 ,19224	2	0 ,507050
3	11 ,54193	3	3 ,28836	3	0 ,760575
4	15 ,38924	4	4 ,38448	4	1 ,014100
5	19 ,23655	5	5 ,48060	5	1 ,267625
6	23 ,08386	6	6 ,57672	6	1 ,521150
7	26 ,93117	7	7 ,67284	7	1 ,774675
8	30 ,77848	8	8 ,76896	8	2 ,028200
9	34 ,62579	9	9 ,86508	9	2 ,281725

Ephah. Bushel decim.		Σίνας liquid Pints decim.		Sextarius liquid Pints decim.	
1	0 ,802433 ^y	1	1 ,1483	1	1 ,19518
2	1 ,604867	2	2 ,2966	2	2 ,39036
3	2 ,407300	3	3 ,4449	3	3 ,58554
4	3 ,209734	4	4 ,5932	4	4 ,78072
5	4 ,012168	5	5 ,7415	5	5 ,97590
6	4 ,814601	6	6 ,8898	6	7 ,17108
7	5 ,617035	7	8 ,0381	7	8 ,36626
8	6 ,419469	8	9 ,1864	8	9 ,56144
9	7 ,221902	9	10 ,3347	9	10 ,75662

Cab liquid Pints decim.		Log Pints decim.		Amphora Hhds. decim.	
1	3 ,36257	1	0 ,84064	1	0 ,113821
2	6 ,72514	2	1 ,68128	2	0 ,227642
3	10 ,08771	3	2 ,52192	3	0 ,341463
4	13 ,45028	4	3 ,36256	4	0 ,455284
5	16 ,81285	5	4 ,20320	5	0 ,569105
6	20 ,17542	6	5 ,04384	6	0 ,682926
7	23 ,53799	7	5 ,88448	7	0 ,796747
8	26 ,90056	8	6 ,72512	8	0 ,910568
9	30 ,26313	9	7 ,56576	9	1 ,024389

Métretes Hhds. decim.		Bath Hhds. decim.		Congius ^z Gall. decim.	
1	0 ,16404	1	0 ,114858	1	0 ,896385
	0 ,32808	2	0 ,229716	2	1 ,792770
	0 ,49212	3	0 ,344574	3	2 ,689155
	0 ,65616	4	0 ,459432	4	3 ,585540
	0 ,82020	5	0 ,574290	5	4 ,481925
	0 ,98424	6	0 ,689148	6	5 ,378310
2	1 ,14828	7	0 ,804006	7	6 ,274695
3	1 ,31232	8	0 ,918864	8	7 ,171080
4	1 ,47636	9	1 ,033722	9	8 ,067465

^y The exact fraction is, $\frac{8024335}{10000000}$. In the Jewish measures I have followed Bi-hop Cumberland. The Ephah, according to Josephus, = 1 ,0961 bushel, and the Cab = 3 ,874 pints; the Cab liquid = 4 ,5933 pints, the Log equal to the Attic Σίνας, and the Bath equal to the Métretes.

^z Equal to the Métretes of Syria.

Attic Drachm = 62,57 gr.		Shekel = 4 Att. Drachms		Attic Drachm. = 62,57 gr.	
oz.	decim.	oz.	decim.	Pound	Troy decim.
1	0,130215	1	0,52086	1	0,01085125
2	0,260430	2	1,04172	2	0,02170250
3	0,390645	3	1,56258	3	0,03255375
4	0,520860	4	2,08344	4	0,04340500
5	0,651075	5	2,60430	5	0,05425625
6	0,781290	6	3,12516	6	0,06510750
7	0,911505	7	3,64602	7	0,07595875
8	1,041720	8	4,16688	8	0,08681000
9	1,171935	9	4,68774	9	0,09766125

Shekel = 219 gr. Troy		Shekel = 4 Att. Drachm		Roman Libra.	
Po.	Troy decim.	Po.	Troy decim.	Po.	Troy decim.
1	0,0380208 ^{1/3024}	1	0,043405	1	0,9125
2	0,0760416 ^{2/3024}	2	0,086810	2	1,8250
3	0,1140625	3	0,130215	3	2,7375
4	0,1520833 ^{1/3024}	4	0,173620	4	3,6500
5	0,1901041 ^{2/3024}	5	0,217025	5	4,5625
6	0,2281250	6	0,260430	6	5,4750
7	0,2661458 ^{1/3024}	7	0,303835	7	6,3875
8	0,3041666 ^{2/3024}	8	0,347240	8	7,3000
9	0,3421875	9	0,390645	9	8,2125



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The AREA of an ELLIPSIS is given by multiplying the rectangle of the TRANSVERSE and CONJUGATE DIAMETERS into 0,7854.

Area fit Ellips. Dia-tran-con duct. in *y,peilo*.

The SURFACE of a sphere is given by multiplying the PERIPHERY into the D-iameter [$\text{Surf} = \overline{pe + d}$]

The SURFACE of a sphere is also given by multiplying the AREA of its largest circle into 4. [$\text{Surf} = \overline{\text{are} + o}$]

The SOLIDITY of a SPHERE is given by multiplying $\frac{1}{3}$ of the RADIUS into the SURFACE. [$\text{Sol-sphe} = \overline{r \text{ rad} + \text{sur}}$]

The Memorial Lines.

Di : peri : : *p* : ed : : bat : ilu. Dia : priph : : azmil : ta-fal-oudou.

s, ektak, uiz-pap, nuk-sóp, sne-lek, aúps-sul, ouiz-lois.
Diperi, bobs dat Priph. datur Arda squad per *y,peilo*.

Area fit Ellips. Dia-tran-con duct. in *y,peilo*.

Ar = $\overline{,rodi + pe}$. Surf = $\overline{pe + d}$, Surf = $\overline{\text{are} + o}$, Sol-sphe = $\overline{,r \text{ rad} + \text{sur}}$.



The Quantity of Vapours raised out of the Sea, estimated by Dr. Halley.

The MEDITERRANEAN, supposed to be equal to 160 square DEGREES, is computed to yield in vapour, per diem, 5280 MILLIONS of T-ONS [$\text{Med} = \text{dégbauz} = \text{lekymilt}$]

The THAMES is computed to carry down in a day of 24 hours, into the sea, 20.300,000 TONS [$\text{Tham} = \text{ez ightton}$]

The rivers (FLUVII) which run into the MEDITERRANEAN, are computed to carry 1827 000,000 tons, which is little more than $\frac{1}{3}$ of what is raised in vapour [$\text{Fluv-med} = \text{aképmilt}$]

The Memorial Line.

Med = $\text{dégbauz} = \text{lekymilt}$. Tham = ez-ightton . Fluv-med = aképmilt .

The Computations are made thus :

By experiments it appears, that each SQUARE F-oot of the surface of water yields in vapour, *per diem*, HALF a wine PINT [Squar=ha-pin]

Each space of four feet square (=16 SQUARE F-eet) yields a GALLON [assquar=gal]

A MILE square 6914 TONS [Milsnafton]

A square DEGREE (of $69\frac{1}{2}$ English miles) 33.000,000 tons [Dég (misou) timton]

The Mediterranean = square 160 degrees = 5280.000,000 tons as above.

The Memorial Line.

Squar=ha-pin : assquar=gal : Mil=snafton. : Dég (misou) timton.



The Quantity of Water the Mediterranean receives from the Rivers that fall into it, is estimated thus :

The most considerable rivers that run into the Mediterranean are the EBRO, the RHONE, the TIBER, the PO, the NILE, the DON or Tanais, the DANUBE, the NIESTER, the NIEPER or Borysthenes. Each of these is supposed to carry down ten times as much water as the Thames : not that any of them is so great, but so to allow for the small rivers that run into that sea. Now the water of the THAMES being computed at about 20.300,000 tons, as above, the nine rivers aforesaid each will amount to 203.000,000 ; in all, 1827.000,000 T-ons.

The Memorial Line.

Thám=ez-igthт, Eb-Rho-Ti-Po, Nil-Don, Dan-Niest-Nieper-aképmilt.

The Water of the Thames is computed thus :

It is supposed to run at Kingston bridge, where the tide reaches not, at the rate of two miles an hour, which is 48 miles in 24 hours ; 48 Miles are equal to 48,480 Yards. [Mifk=Yako-feiz], which being multiplied by 300 Yards (the Profile of water at

Kingston bridge, where it is supposed to be 100 yards broad and 3 deep) produces 25.344,000 cubic Y-ards of water [Yako-feiz per ig=Yél-tfoth], which are equal to 20.300,000 TONS [=ez-igthton]

The Memorial Line.

Misk=Yako-feiz (Kin-prig) Yako-feiz per ig=Yél-tfoth=ez-igthton.

The Velocity of Sound, Light, &c.

A cannon bullet (GLOBUS tormento bellico emissus) in a SECOND, moves 204 YARDS [In-sec Glob-yarezo]

Light (Lumen) in a second moves 200,000 MILES [Lu-milegth]

Sound (SONUS) moves in a second 1142 feet (Pedes) [Son-ped-movetabfe]

A cannon bullet moves a M-ile in 17 HALF SECONDS [Glob-M-ápha-sec]

Sound moves a mile in 9 half seconds $\frac{1}{4}$. [Sonn,ro]

A cannon bullet would be in moving to the sun (AD SOLEM) 32 years $\frac{1}{2}$. [Ad-sol-glob=án-te,re]

Sound would be in moving to the sun 17 years [Sonap]

The descent of heavy bodies (DESCENSUS GRAVIUM) is 16 F-eeet $\frac{1}{2}$, or an inch, in a SECOND [Des-gravi-sec=fas,rad] and in more seconds as the squares of those times.

A PENDULUM of 39 inches 2 tenths (Pendulum Intou,d) Oscillates or vibrates SECONDS [Oscil-sec-Pendulum-Intou-d]

The Memorial Lines.

In-sec Glob-yarezo, Lu-milegth, Son-ped-movetabfe.
Glob-M-ápha-sec, Sonn,ro, Ad-sol-glob=án-te,re, Sonap
Des-gravi-sec=fas,rad, Oscil-sec-Pendulum-Intou,d.

The Jewish Months.

Nisan or ABIB

^a March

^a i. e. part of March and part of April, and so of the rest.



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Jewish and Christian Æra of the Creation.

Both Jewish and Christian writers make use of the æra of the creation of the world; but there is great variety of opinions concerning the number of years between that and the birth of Christ. That which is most generally received is, that the first year of the vulgar Christian æra commences from the day of his circumcision, viz. the first of January, in the year of the world 4004, and of the Julian period 4714. The Jews place the creation of the world *later* by about 243 years; and the Greek historians, upon the authority of the Septuagint, *sooner* by about 1490 or 1500 years; so that

Oct. 7	} of the first year of the Christian æra	} began	} the 3762 year of the Jewish æra	
Aug. 27				} the 5494 of the GREEK Ecclesiastical æra
Sept. 1				

The Memorial Line.

Christ = *múndothf*, Jud = *ipaud*, Grec-Ecc = *lonf*.
Grec-Civil = *ulzou*.

The Days^b of the Month on which the other noted Epochas began.

			Bef. Christ
The destruction of TROY	June	16.	1183
^c The first OLYMPIAD	June	19.	776
The building of ROME	April	21.	753
^d Æra of NABONASSAR	Feb.	26.	747

^b For the years, see page 7.

^c The last day of the Olympic games was upon the full moon immediately after the summer solstice.

^d The Nabonassarean years, not admitting any intercalary day, began, after every four years, a day sooner, and in 1461 years (*bosa*) went back throughout the whole Julian year, and began on the same day again.

		Ref. Christ
The PHILIPPIC æra	Nov. 12.	324
Æra of Contracts	Oct. 1.	312
The VICTORY at Actium	Sept. 2.	51
		An. Dom.
The Dioclesian æra	Aug. 29.	284
The MAHOMETAN æra	July 16.	622
The æra of YEZDEGIRD	June 16.	632

The Memorial Lines.

Mund=Octoi, Oly-jan, Phil-nad, Nab-fés (bosa)
 Ro-pda.
 Yez-Troy-jas, Maho-las, Dio-gen, Vict-Acta-se,
 Con-ta.



The specific Gravities of some Metals, and other Bodies^e.

A cubic inch of		Ounces Troy. decim		
		'Fine gold [Aur=az,iloud]	=	10
	Fine silver [Arg=l,eil]	=	5	,850035
		Ounces Averd. decim.		
	Lead [Plumb=s,lutkul]	=	6	,553855
	Common iron [Fer=f,oden]	=	4	,422979
	Fine marble [Mar=b,laukk]	=	1	,568859
	Common glass [Vitru=b,oniz]	=	1	,493037
	Com. clear water [Aqua=b,loiksoup]	=	1	,578697
	Sound dry oak [Robo=lislaun]	=		,536569
	Oil Olive [Ol-Ole=lektuz]	=		,528350

Aur=az,iloud: Arg=l,eil. Plum=s,lutkul: Fer=f,oden: Mar=b,laukk.

Vitru=b,oniz: Aqua=b,loiks: Robo=lislaun: Ol-Ole=lektuz.



Numerus Dignitatum, &c. Tempore Camdeni.

^e Sunt in Anglia DECANATUS 26, ARCHIDIACONATUS 60, DIGNITATES & PRÆBENDÆ 544, ECCLESIAE-

^e See Ward's Mathematician's Guide, part i. chap. 10.

^f The beginning of the *technical* words is from the Latin word for each.

^g *Camdeni Britannia*, edit. Jans. p. 67.

PAROCHIALES 9284 e quibus 3845 sunt APPROPRIATAE. In libro tamen Thomæ Wolsæi Cardinalis descripto 1520, per comitatus numerantur ecclesiæ 9407.

The Memorial Line.

Sunt Decanes, Archdauz, Præblof, Parochoudeif, Apprikfu.

The Temple of the eight Winds, mentioned in Dr. Potter's Archæologia.

Εὐρ☉	Eurus	S-outh E-ast.
Ἰπηνλιώτης	Subsolanus	E-ast.
Καικίας	CÆCIAS	N-orth E-ast.
Βορέας	BOREAS	N-orth.
Σκιρον	CORUS	N-orth W-est.
Ζέφυρ☉	Occidens	W-est.
Νότ☉	NOTUS	S-outh.
Αίψς	AFRICUS	S-outh West.

The Memorial Line.

Cæci=NE, Σκι-Cor=NoW, Εὐ=SE, Α-Af=SoW, Βór=N, Ἰπ=Ε, NotS, Z=Ow.

According to Aulus Gellius, the Winds are thus distinguished.

Septentrio	Ἰπηνλιώτης	North.
Eurus	Subsolanus	East.
Auster	Notus	South.
Favonius	Zephyrus	West.
Boreas	Aquilo	North East.
Vulturnus	Euronotus	South East.
Caurus	Ἰπηνλιώτης	North West.
Africus	Libs	South West.

Roman Militia.

A LEGION	=	10 COHORTS.
A COHORT	=	3 MANIPULI.
A MANIPULUS	=	2 ORDINES.
A TURMA	=	3 DECURIOS.



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*The Bishopsⁿ who refused their assent to
the Ὁμοόσιον.*

EUSEBIUS, bishop of NICOMEDIA.

THEOGNIS, bishop of NICE.

MARIS, bishop of CHALCEDON.

THEONAS, bishop of MARMARICA.

SECUNDUS, bishop of PTOLEMAIS.

The Memorial Line.

Eu-Nico, Theog-Ni, Mar-Chal, Sec-Ptol, Theo-
Marmar.

The ten PERSECUTIONS under

NERO, DOMITIAN, NERVA, ANTONINUS PIUS,
SEVERUS, MAXIMIN, DECIUS, VALERIAN, AURELIAN,
DIOCLESIAN.

The Memorial Line.

PERS = Ne-Do-Nerv-Ant-Pi-Sev-Max-De-Val-Aure-
Diocles.

The Electors of Germany

Were. the Archbishops of MENTZ, TRIERS, and
COLOGNE, Elector Palatine of the RHINE, the King
of BOHEMIA, the Electors of BAVARIA, SAXONY,
BRANDENBURG: the Elector of HANOVER was added,
Anno Dom. 1693.

The Memorial Line.

Men-Tri-Co-Rhin-Bohe-Bav-Sax-Branden : Hanover
ad sout.

The Quinquarticular Controversy, concerning

1. PREDESTINATION. . 2. Free-will (LIBERUM
Arbitrium). 3. The force of Divine Assistance

Ἡ ταύτην τὴν πίσιν τριακόσιοι μὲν πρὸς τὰς δεκαοκτὼ, ἔγνωσαν τε
καὶ ἔσερξαν καὶ ὡς φησὶν ὁ Εὐσέβιος, ὁμοφωνήσαντες καὶ ὁμοδοξήσαντες
ἔγραψον πέντε δὲ μόνοι ἔπροσεδέξαντο, τῆς λέξεως τῆ ὁμοσίᾳ
ἐπιλαβόμενοι. Εὐσέβιος ὁ Νικομηδείας, &c. Socratis Historia Ecclesi-
astica, lib. i. cap. 8.

(AUXILIUM). 4 PERSEVERANCE. 5. The extent
REDEMPTION.

The Calvinian doctrine upon these points, handed from Geneva by the English refugees, and propagated by CARTWRIGHT in the Margaret professor's chair at Cambridge, was, at a consultation of several prelates and divines at Lambeth, digested into nine articles, commonly called the LAMBETH ARTICLES, and agreed upon Nov. 10, 1595, [Naz-aloul,] but, by order of Queen Elizabeth, were immediately recalled and suppressed.

The Memorial Line.

Lamb-Art = Cart-Naz-aloul: Predés-Liber-Auxili-
Pers-Red.

The seven Precepts (SEPTEM PRÆCEPTA) of the sons of Noah are recorded by the Jewish Doctors under the following Titles:

- I. To worship the true God, [CULTUS DIVINUS.]
- II. To renounce Idolatry.
- III. To commit no murder; [CÆDES.]
- IV. Not to be defiled with fornication, &c. [STUPRUM.]
- V. To avoid all rapine, theft, &c. [FURTUM.]
- VI. To administer justice, [JUSTITIA.]
- VII. Not to eat the flesh with the blood, [SANGUIS.]

Such Gentiles as were admitted to the worship of the God of Israel, and the hope of a future life, but were not circumcised, nor yet conformed to the Mosaical rites, being only obliged to the observation of the foregoing precepts, were called proselytes of the gate, in opposition to the proselytes of righteousness, or of the covenant, who differed nothing from the Jews, but that they were of Gentile race. See Lewis's Hebrew Antiquities.

The Memorial Line.

Sept-Præcept = Cul-Idol-Cæd-Stup-Furt-Jústiti-Sanguis.

Misnah, Gemarah, Talmud.

The MISNAH in 6 B-ooks [Misna-bs] contained 63 Tracts [Traut] into which the traditions or oral law of the Jews were methodically digested by Rabbi Judáh HAKKADOSH in the time of ANTONINUS P-ius [Hakad-AnP]. As soon as it was published, it became the subject of the study of all their learned men, and the chiefest of them, both in Judæa and Bablylonia, employed themselves to make comments upon it; and these, with the Misnah, make up both their Talmuds, *i. e.* the Jerusalem Talmud and the Bablylonish Talmud. These comments are called the GEMARAH or complement, the Misnah the text; both together the TALMUD [Tal = Mís-Gema]. The JÉRUSALEM TALMUD was completed about A. D. 300 [Tál-Jerig]. The B-aby-lonish TALMUD about 500, or in the beginning of the sixth century [Tal-bug]. This latter is only in esteem among the Jews. See *Prideaux's Connection*, p. 328.

The Memorial Line.

Misna-bs-Traut-Hakad-AnP : Tal = Mís-Gema :
Tál-jerig : Tal-bug :

Characters Arithmetici Græci et Hebraici.

Ab-βέ-γι-δο ευ-σαυ ζοι-ηκ-δου-ια κέζ-λι-μο νυ-ξου.
Op-πει λου ρά-τε-τι υφ-φου-χου, ψοι-ωμει σανου.
Ab-βέ-γι-το ηυ-ιαυ ροι ηκ που ια ρεζ-λι-δο νυ-δου.
γρ-δει ζου ρα-τε-σι ηφ-ηυ-ουαι ροique ηει γου.

The decads and hundreds will be easily distinguished from each other, and therefore only the first figure is added; λι sc. λ=3, *i. e.* 30; τε sc. τ=e, *i. e.* 200. Pronounce λου, κορου, σαου Sanpou, ηφ Thauf, γου tsadou.



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under him two dioceses, *viz.* Macedonia and Dacia. [Ill=Ma-D.]

3. The *Præfectus Prætorio* of Italy, and under him three dioceses, *viz.* Italy, Illyricum, and Africa. [It=It-Ii-Af.]

4. The *Præfectus Prætorio Galliarum*, and under him three dioceses, *viz.* Hispania, Gallia, and Britannia. [G=His-Ga-B.]

The Memorial Line.

Præf = Dibi = Pradz : Ill = Ma-D : Or = E-As-Po-
Th : It=It-Ii-Af : G=His-Ga-B.

The Dimensions of the Ark and Temple.

The length (LONGITUDO) of the ARK 300 Cubits. [Ark-lo-cubig.] The Breadth 50 cubits. The height (ALTIUDO) 30 cubits. [Bruz-Aliz.]

The length of the Temple which K. Solomon built for the Lord was 60 Cubits, the Breadth thereof 20 cubits, and the height thereof 30 cubits. 1 Kings vi. 2. [Tem-Lónsy-Brez-Alty.] The length of the Porch 20 cubits, the height thereof 120 cubits. 2 Chron. iii. 4. [Porez-bez.]

Ark-Lo-cubig-Bruz-Aliz, Tem-Lónsy-Brez-Alty,
Porez-bez.

*Computation of the Cost, Vessels, Vestments, &c. of
Solomon's Temple.*

By Villalpandus's computation of the number of Talents of gold, silver, and brass, laid out upon the Temple, the sum amounts to 6904.822,500*l.* sterling. [Tal-tem=souzo-ked-ug.] And the jewels are reckoned to exceed this sum.

Vessels of gold (VASA AUREA) consecrated to the use of the temple, are reckoned by Josephus 140,000, [Vas-aureabózh], which, according to Capel's reduction of the tables contained in them, amounts to 545.296,203 pounds sterling, [lol-enáu-dyt.]

The vessels of silver (Vasa Argentea) 1.340,000 [Vas-áratozth] are computed at £439.344,000, [fin-tofth.]

Priests' vestments of silk (Vestēs Sericæ) 10000, [Vest-sericazth.]

Purple vestments for singers 2.000,000, [Pem.]
Trumpets 200,000, [Tregth.] Other musical Instruments 40.000, [Instroz.]

Besides these charges, there was that of the other materials, and of 10,000 men per month in Lebanon to hew down timber (Sylvicidæ) [Sylvicidaz.] To carry burthens (Vectores) 70,000, [Vectoiz] To hew stones (Lapicidinæ) 80,000, [Lapiky], and 3300 overseers (Episcopi) [Episcoptig], who were all employed for 7 years (Annis Septem), to whom, besides their wages and diet, Solomon gave a free gift 6.733,977 pounds (Donum Solomonis) [s-paut-noip]. The treasure left by David towards carrying on this work (Reliquit David) 911.416,207. [nab-oás-dyp.]

N. B. *th* is left out, as Sylvicidaz for Sylvicidazth, &c. it being impossible to mistake 10,000 for 10.

The Memorial Lines.

Tal-tem = souzo-*ked-ug* : Vas-aureabó^zth = lol-enáudyt.

Vas-áratozth = fin-tofth : Tregth : Instroz : Vest-sericáz : Pem.

An-sept Silvicidaz, Lapiky, Vectoiz, Episcoptig.

Don Solomo-s-paut-noip : reliquit Dav-nab-oás-dyp.

The number of those that returned (Reduces) from the captivity were 42,360 [Redufe-tauz] besides PROSELYTES 7337. [Proseloítip.]

The particular sums in EZRA'S CATALOGUE amount to 29,828. [Cat-ézdou-kek.]

The particular sums in NEHEMIAH'S CATALOGUE 31,031. [Cat-nehetazib.] How these accounts are reconciled, see the Index to the Bible.

The Memorial Line.

Redufe-tauz-Proseloitip: Cat-ézdou-kek, Cat-nehe-tazib.

The SILVER of them that were numbered of the CONGREGATIONS was a hundred TALENTS and a thousand seven hundred and threescore and fifteen SHEKELS after the shekel of the sanctuary, a BEKAH for every man, that is, half a shekel after the shekel of the sanctuary, for every one that went to be numbered, from twenty years old and upwards, for six hundred thousand and three thousand and five hundred and fifty men. Exod. xxviii. 25, 26.

The Memorial Line.

Sil = Con = Talg-Shékapoil, Bek-syt-luz = Shekelizappu.

Difference of Talents.

	Attic minas.	Att. drachms.
A SYRIAN TALENT contained	15	1500
A PTOLEMAIC talent	20	2000
AN EUBOIC talent	60	6000
AN ALEXANDRIAN talent	120	12000
AN ANTIOCHIAN talent	60	6000
A LARGER ATTIC talent	80	8000
A BABYLONISH talent	70	7000
AN ÆGINEAN talent	100	10000
A RHODIAN talent	100	10000
A TYRIAN talent	80	8000
AN ÆGYPTIAN talent	80	8000

The Memorial Lines.

Tal-Syr = Mal: Ptolem = ez: Eub = auz: Alexan = bez & Ant = auz.

Att-Māj = eiz: Babyl = oiz: Ægin = ag: Rh = ag: Tyr-Ægypt = eiz.

I shall conclude with two lines, just to shew how

ⁱ According to some, the Rhodian talent contained but 4500 Attic drachms, and the Euboic but 4000. *Vide Brerewood de Ponderibus et Pretiis, cap. 9.*



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LOWE'S MNEMONICS.

DR. WATTS, in his Essay on the Improvement of the Mind, near the conclusion of the 17th chapter, where he more especially treats of Improving the Memory, makes the following observation :

“ Dr. Grey, in his book called *Memoria Technica*,
“ has exchanged the figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 0,
“ for some consonants, b, d, t, f, l, s, p, k, n, z, and
“ the vowels a, e, i, o, u, y, with several diphthongs,
“ and thereby formed words that denote numbers,
“ which may be more easily remembered: and Mr.
“ Lowe has improved Dr. Grey's scheme in a small
“ pamphlet called *MNEMONICS DELINEATED*, whereby
“ in a few leaves he has comprised almost an infinity
“ of things in science and common life, and reduced
“ them to a sort of measure like Latin verse.”

Under sanction of the great authority above quoted, the publisher of the present edition has annexed Mr. Lowe's tract, which the author originally intended both as a supplement to and an improvement of Dr. Grey's method; accordingly asserting in his advertisement, that “ most of the articles are what per-
“ haps did not occur to Dr. Grey; and the rest are
“ reformed to good purpose, particularly those of
“ Weights, Coins, and Measures, of which I have
“ given a full account in less than eight pages,
“ whereas the Doctor's, though very defective,
“ amounts to twenty-eight.”

The two schemes are now before the reader, to use whichever seems best; and though Mr. Lowe's is in some instances little more than a repetition of Dr. Grey's plan, yet it has been thought adviseable to

reprint the whole at full length, and even to follow his peculiar mode of spelling, as most consistent with brevity. It may also be necessary to premise, that Mr. Lowe's astronomical calculations are according to the old style, and his geographical divisions are as they existed in the year 1737; the time when his pamphlet was first published; which disagreement with the present period it is hoped the industry and sagacity of the learner can easily rectify, by composing new technical words, which may be more easily remembered than those formed by another; these works being originally designed more as specimens of what might be done by attention, than as complete sets of tables in the various branches of learning and science.



THE KEY.

Directions for the better learning to remember Figures or Numbers expressed by Letters.

a	e	i	o	u	au	oi	ei	ou	y
1	2	3	4	5	6	7	8	9	0
b	d	t	f	l	s	p	k	n	z

g 100. th 1,000. m. 1.000,000.

r denotes fractions, as follows: ,ro $\frac{1}{4}$: ,iro $\frac{3}{4}$:
d,eri $2\frac{2}{3}$: ,rag ,01.



ARITHMETIC.

Arithmetical Characters.

+ and : , — less: × multiplied-into: ÷ divided-by: = is, gives.

*The Division of the old Roman AS, viz. any Integer,
or Whole.**

Uncia. Sext. Quā. Triens. Quinc. Sem. Sept. Bes.
Dödrä. Dext. Deu.

AS, parts	12		Semissis	6
Deunx	11		Quincunx	5
Dextans	10		Triens	4
Dodrans	9		Quadrans	3
Bessis	8		Sextans	2
Septunx	7		UNCIA	1

COINS.

Coins reduced to Farthings.

- 1 E.]³ Sh-ok. Cr-ěfy.] N-idz. Ange-okz. M-äufy.
Gui-bzyk. Car-bäzo. Jac-beg.
- 2 H. Ger-f] Bě-lř. Sh-abz. *Man-sups. †Tal-ideith
feil] Sh-aplě. Tal-um-dusth.
- 3 G. Lep-,tärítau. Dřchäl-a,prěf. öb-u,rau]*Dr-ib.
‡Stätěr-ado.
- 4 R. T,oiپüräth. §As-t,raz] Ses-p,irf. V-al,rě.
Děn-ib. Sp-oil.] Aür-oipu.

* + + s	} Proportions.	{ DRACHM] Hěb-řs. Att-řř: Alex-oid—MIN]
		{ Att-lig. Itäl-ekeiz.
		{ TAL] Att-boukth. Báb-ětath.] Att-řbauth
		{ eig. Bab-řm-äunsth. R-akyth.
		{ STATER (gold) Att-poil. Cыз-Phřl-Alex-däp. Croes-Däřř-buly.
		{ As we ghead Ouncěs-äd, U-C-bouz ⁴ : e; fouz: a; řřp: -äre; teis.

MONEY.

Sums of Money, or Money of Account.

- 5 { (E) Penn-f. Gr-as. Pound-ousy. (G) TAL.
MIN. Ægř-g=ubss. ⁵ Ant-sy=g.



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$\frac{1}{4}$ as, $\frac{1}{4}$ noble. Quadrigátus, denarius. *Quadrussis*^c, 4 asses. Quinarius, victoriátus. *Quinquessis*^c, 5 asses. *Rhodia*=ægina. Sembella, semi'libella. Semilibella, $\frac{1}{2}$ libella. *Semuncia*, $\frac{1}{2}$ uncia. Sescuncia, $1\frac{1}{2}$ uncia. *Sextans*^c, $\frac{1}{8}$ as. *Sextula*^c, $\frac{1}{8}$ uncia. Solidus, aureus. Tetradrachmon, 4 drachmæ. Tetrobolon, 4 oboli. *Tressis*, 3 asses. *Tricessis*, 30 asses. Tridrachmon, 3 drachmæ. *Treins*^e, $\frac{1}{3}$ as. Triobolon, 3 oboli. *Vigessis*, 20 asses. *Uncia*^c, $\frac{1}{12}$ as.



1 N.B. The several *coins, measures, and weights*, being reduced to the lowest denominations, the memorial verses answer all the purposes of the largest tables: (1) The difference of any two terms being known by subtraction^a: and (2) How many of any make one of another, by division^b.—e. g. (a) What is the difference between a *Shilling* and a *Shekel*? Answ. (Sh-ab:) 110—(Sh-ok) 48=62 q. i. e. S 2 : 3 : 2—S 1=S 1 : 3 : 2, the shekel more than the shilling. (b) How many *Spans* make a *Fathom*? Answ. (Fath-oid) 72÷(Spa-n) 9=8. Accordingly, if it be asked, *What is a fathom?* (and so of any other) the answer may be made, the same way, in any of the prior denominations: e. g. 24 palms, or 6 feet, or 4 cubits, or 2 yards, or $1\frac{1}{2}$ pace, &c.

2 Any whole was called AS, and 1 twelfth of it UNCIA [whence our terms of *ounces* for weight, and *inches* for length]. The several numbers of those unciaë (between 1 and 12)—were denominated, in order, as follows in text: viz. Sextans (i. e. $\frac{1}{6}$) 2 Quadrans ($\frac{1}{4}$) 3, &c.—and express their manner of reckoning *Interest* of money: thus *usuræ asses* [centesimæ] was 1 per month [12 per year] per cent. (suppose aurei, or pounds: *deunces*, 11 twelfths per month, and so on to *unciariæ*, 1 twelfth per month [1 per year] e. g. 20d. per month, 20s. per year.

3 Of the three apartments distinguished by brackets, in the 1st are Brass- or Copper-; 2d, Silver-; 3d, Gold-coins.—N.B. (1) *Sh-ok* (as appears by the Abbreviatures explained underneath, and by the key above) signifies *Shilling* 48: i. e. a shilling is 48 farthings; and so of the rest. (2) *y* (the memorial letter) may be pronounced *wee* or *wi*, to distinguish it from *i*: e. g. *Cr-cfy*, as if it were *Cr-efwi*.

4 i. e. in the year (*Urbis Conditaë*) from the building of the city of Rome, 190.—*c, fouz*; i. e. U. C. 490, when the Punic war had exhausted the treasury, it weighed but 2. and so of the rest.

5 i. e. the Æginean *mina* was (ubss) 5656 q: (g) 100 of which made the Æginean *talent*. and so of the rest.

6 N.B. In these lists—those in *Italic* are moneys of account, the rest, coins.—The *Figures* and *Marks* refer to the corresponding memorial verses.

(c) N.B. There are also COIN Half-guineas, Seven-shilling pieces, Half-crowns, Three-pences, Two-pences, Half-pennies; and such as are distinguisht by a superior ^c.

MEASURES.

Cubic Measures reduced to Pints.

- | | | |
|----|---|---|
| 1 | { | Quar-d. *Gal-k. R-afö. Bar-eld. Ti-(WINE) tts.
H-uzf. Paüpě. B-athei. T-ethbau. |
| 2 | { | Firk-boid, ásf. ¹ Kíl-äbek, baff (BEER & ALE)
Bar-bdeïk. ädus. Hög-älad, bupş. |
| 3 | { | Pe-bs. Bũ-so. Str-uek. Coom-dus (DRY) Se-übě.
Ch-etzo. We-ithpě. Lă-lady. |
| 4 | { | (liq.) C-,urei. L-irö. Căb-i. H-az (H) Seäh-dÿ.
Bath-sÿ. Höm-auzu (-uid. |
| 5 | { | Cab-,durau. Göm-,ÿraz. Se-boi (DRY) Bă-lă.
Le-dlaũ. Hömer-lat. |
| 6 | { | Coch-,rädÿ. Ch-rauz. Myst,rok (G) Conch-,raf.
Oxybă-,rei. Metr-eis. |
| 7 | { | Coch-,rädÿ. Choen-brě. Mědim-pě (DRY) Cÿ-
Ox-Cötÿ-Xest-as the Roman. |
| 8 | { | Quart-,rö. Sě-a,rl. Cö-p. Ur-ek-ră (R) Quă-
dr-up. Cülě-bafp. Lĭ. Cÿ. Ace. Hem. |
| 9 | { | Lig-,rok. Cy-rad. Acet-,rei. Hěm (DRY) in,rě.
Sě-a,rũ. † Mod-as,re. |
| 10 | { | *GALLÖN cöntains inches (dry) <i>doid,rö</i> ² : (beër).
-ekě: (wine) <i>eta</i> ³ . |
| 11 | { | †POTTLE Quărts (dr-) <i>i</i> (liquid)-e— † MODI-
Pints (liquid)-an (dry)-bau,ro. |

Abbreviatures explained.

Acetabulum (lin.) 9, 8. Barrel, 1. Bath, 4.
Bushel, 3. Butt, 1. Cab, 4. Caph, 4. Cheme, 6.

Chaudron, 3. Chœnix, 7. Cochlearion, 6. Concha, 6.
 Congius, 8. Coomb, 3. Culeus, 8. Cyathus, 9.
 Firkin, 2. Gallon, 1. Gomer, 5. Hemina, 9.
 Hin, 4. Homer, 4, 5. Hogshead, 1, 2. Kilderkin, 2.
 Last, 3. Letech, 5. Ligula, 9, 8. Log, 4. Me-
 dimnus, 7. Metrètes, 6. Modius, 9, 11. Mystron, 6.
 Oxybaphon, 7. Peck, 3. Pottle, 11. Punchion, 1.
 Quadrantal, 8. Quart, 1. Rundlet, 1. Seah, 4, 5.
 Seam, 3. Sextarius, 8, 9. Strike, 3. Tierce, 1.
 Tun, 1. Urna, 8. Wey, 3.

Synonyms and Equivalents.

Amphora, quadrantal. Amphoreus, metrètes. Ca-
 dus, metrètes. Carnock, coomb. Chos, congius.
 Coron, homer. Cotyle, hemina. Ephah, bath. Lin-
 gula, ligula. Omer, homer. Oxybaphon, acetabulum.
 Pipe, butt. Quarter, seam. Quartarius, $\frac{1}{4}$ sextarius.
 Semimodius, $\frac{1}{2}$ modius. Xestes, sextarius.



1 i. e. A *Firkin* (1) of Beer=72 pints. (2) of Ale=64 pints. and so of the rest.

2 By act of parliament, in 1697, the gallon contains only $268\frac{4}{5}$ inches.

3 By experiment, made in 1688, it was found to contain only 224 inches.



Long Measures reduced to Inches.

1	{ Nail-d,ro. Pal-t. Hăn-ö. Spa-n. Foot-ad. Cũbĩ-bei. E (f l) ěp (eng) ol.
2	
3	{ H. Pal-f. Sp-ad. C-ef. F-ous. Ez-böf. Ar-and. Schoen-andÿ. Stă-naug. M-ousth.
4	
5	{ G. Dör-f. Lích-ăz. Orth-ab. Sp-ad. Pygm-ak. Pÿ-dz. O-nau. St-naug. M-oiskyz. R. Unc-ă,ri. Pal-f. Pe-bs. Palm-dÿ, Cũo-ef. Gră-kÿ. Pass-kÿ. Stă-byth.



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Square Measures reduced to Square Feet.

- 1 { E. Yar-n. Pace-du. Pöle-ěpe, rō. Roöd-azkouz.
Acrě-ölusy.
- 2 { G. Plethron——azasf. Aroura, the half: but
Ægyptian——itdaun.
- 3 { R. Juger-esoutÿ. Cli-tisaÿ. Vě-nilÿ. (mĭn)
A-fökeï (qu) atfauz.

Abbreviatures explained.

Actus minimus, quadratus, 3. Clima, 3. Jugerum,
3. Versus, 3. Yard, 1.

MULTIPLICATION TABLE.

from 7
by 12 { { P-oi, on. P-ei, us. P-ou, si. K-ei, so,
K-ou, pě. N-öu, eia. } 7 × 7
{ { F-ad, fei L-ad, sÿ. S-äd, oid. P- } = 49
ad, ko. K-ad, ouäü, N-ad, azei. }

NUMERICAL LETTERS.

- 1 R. { In Numerals] A less number, *afore*, Abates¹;
after, Encreases².
- 2 { I-b. V-u. X-az. L-uz. C-azÿ. D-ÿyz.
M (ciö³) *ath*: hence (ccioö) *byth*,
- 3 H. { N-b. ' -az. p-ag⁴—w-bu⁵—from-ug by ףןןןן
to ouzy⁶ [cccioöö
- 4 { -ath by the Units⁷: but oftener by ףלן, pre-
fixing the numbers⁸ [azyth.
- 5 G { a-b. i-az. e-ag⁴. s-au. (vi) koppä-nÿ (tau)
sanpi-ouÿz⁹. á (α α α)-azyz
- 6 { I-b. II-ÿ Δ-äz. H-ag. X-ath. M-azth. Π mul-
tiplies others inscribed in it¹⁰.

1 e. g. IV 4, IX 9, XL 40, XC 90.

2 e. g. — VI 6, XIV 14, XIX 19, XXIX 29 —

N¹ 11, ך¹ 12: N² 101, כ² 102—ia 11, ea 101, &c.

3 Formed, in current writing, from M: part whereof, united, (viz. 15) became D 500. hence 155 5000, 1555 50000.

4 i. e. Units, tens, hundreds, begin from the letters here specified; and are to be reckoned on, in order, from them. e. g. α 1, β 2, γ 3, &c. ι 10, κ 20, λ 30, &c. ρ 100, σ 200, &c.

5 Instead of Π , being the ineffable name of Jehovah.

6 e. g. \daleth 500, \beth 600, \gimel 700, &c.

7 Before the letters expressive of hundreds; as, $\aleph \daleth \beth$ 1534: very seldom otherwise; $\aleph \beth$ 1070.

8 e. g. $\beth \aleph \beth$ 2000, $\beth \aleph \beth$ 3000, $\beth \aleph \beth$ 30000, &c.

9 The various figures and names of these numeral characters, see in my Table of Greek characters.

10 e. g. Δ (10) inscribed in Π (5) is $\overline{\Delta}$ (50.)



PRACTICE.

1. *If one*¹? the sought *into* Price², or its factors³; or *by* Aliquot parts⁴. and, by the Aliquots of Fractions of Sought (if any) *divide* Price⁵.
2. *What'll One*⁶? the Price *by* Commodity⁷; but, if too large, *by* its factors⁸.

1 i. e. In questions, where the conditional term is I: as, when we say, “*If one* cost so much, what will so much cost?”

2 i. e. Multiply *the* question-term, or thing *sought*, *into* the price, &c.—e. g. *If one* cost 10s. what will 20 cost? &c. Answ. 20 (the thing sought) \times 10 (the price) = 200s. i. e. 10l.

3 viz. when more commodious.—e. g. *If one* cost 12 | 6, what will 14? Answ. The factors of 14 being 2×7 ; say $2 \times 12 | 6 = 25s$: then $7 \times 25s. = 175s.$ i. e. 8l. 15s.—N. B. If the multiplier be not resolvable into factors, take those that come nearest it, and add the price for the odd one, or multiply it by what the factors want of the multiplier.

4 Divide it *by* the *Even parts* of the denomination, in which you would have the answer.—e. g. *If one* cost 12 | 6, what will

14? Answ. 10s. being the $\frac{1}{2}$ of 1l. and 2 | 6 (which makes up the 12 | 6) the $\frac{1}{4}$ of 10s; say 2 in 14 = 7l. then, 4 in 7 (the quotient of 14 by 2) = 1: and there remains 3l. which, in the next inferior denomination (viz. Shillings) is 60, then 4 in 60 = 15s.

Thus	. . .	14				14 pds. pks, &c.			
divided by	{	s	10	$\frac{1}{2}$	gives	7	-		
			2			10	2	7	-
			6	$\frac{1}{4}$		1	15	-	8
									7
			S 12:6	L 8:15					
			S 12:6	L 8:15					

5 As in the following example :

C	qr	lb				l	s	d
84	3	11				at	1	10
L 1. s 1. = 21s						qr.	$2\frac{1}{2}$	10 11
							$1\frac{1}{2}$	5 5 2
Aliq- uots of 1s						lb	$7\frac{1}{4}$	1 4 1
							$4\frac{1}{7}$	- 9 1
d6 $\frac{1}{2}$								
						3q. 11lb.		
4 $\frac{1}{3}$								
q3. lb 11. s 18:6								

In all . . 1852 : 6 The answer : which, being halv'd { 92 : 12 : 6; the price of C 84: gives- { qr 3; lb 11.

6 i. e. In sums, wherein the Question-term is 1; as when we say, "If so much cost so much, *What'll one cost?*"

7 e. g. If 12 cost 10 | 6, what will 1? Answer, 12 in 10 | 6 1 cannot have: but 12 in 10 x 12 (to reduce it to pence) = 120 + 6 = 126: then 12 in 126 = 10d. and 6 remains; which multiplied into 4 (to reduce it to farthings) is 24: then 12 in 24 = 2 q.

Thus { in s 10 : 6 : - | or, by the factors of
12 - 10 2 | 12, viz.
2 x 6, or 3 x 4; as in the following:

8 The foregoing example will stand

Thus	{	in s 10 : 6 : -		in s 10 : 6 : -
		2 5 3 -		2 3 6 -
		6 10 2		4 - 10 2

So the answer is found more easily than by dividing by 12: much more so it will be, when that number is higher.



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SUBTRACTION

May be more commodiously performed by *Addition*, as in the next article.



TABULATING.

To multiply and divide by Addition only.

1. Twice-double-Multiplicand facits † every multiplier. † gives the f. of.
2. Tabulate Divisor: Quote next digit-under: Subtract by Addition.



1. In the MULTIPLICATION-sum (I) the facits of the multiplicand *twice doubled*, are, as they stand against the digits 2 and 4. Then, To multiply the multiplicand—into 8 (the last figure of the multiplier) double the facit of the digit 4—into 6 (the 2d figure, &c.) add the facit of 4 to that of 2 (=6)—into 7 (the next figure, &c.) add together the facits of 1, 2, 4 (=7) placing each of them, as in the common method of multiplication.

2. In the DIVISION sum (II) (1) *Tabulate the divisor*, as in the example, viz. against the digit 2, by adding the divisor to itself; against 3, by adding together the totals of 2 and 1; against 4, by adding the total of 2 to itself, or that of 3 to that of 1; and, in like

		<i>Multiplicand</i>		<i>cator</i>	
<i>Digits.</i>	1	98765	×	768	
	2	197530		(I)	
	4	395060			
		—————		<i>by</i>	
<i>Facits.</i>		790120	8	<i>Divisor.</i>	
		592590	7		
		691355	6		
		—————		(II)	
<i>Dividend.</i>	75851520	÷	768		<i>Digits.</i>
	673794		1536		1
	5898		2304		2
	43.		3072		3
	Quotient (III)		3840		4
98765	÷	968	4608		5
1929		1936	5376		6
Quotient:		102	6144		7
		—————			
		6912			

manner, in the rest, by adding together the totals of any two or more digits, equal to the digit whose total is sought. Then, (2) *Quote* (or, for the quotient, take) the *digit* against the total *next* less, or *under* the first corresponding figures of the dividend, viz. 7585. Then, instead of subtracting, according to the common method, the facit of the divisor by 9 (viz. 6912) from (7585) the corresponding figures of the dividend (3) *Subtract by addition*, and say [not, 2 from 5, and there remains 3; but] 2, and (so much

as will make 5, viz.) 3 is 5: then 1, and (as much as will make 8, viz.) 7 is 8: then 9, and [what will make 15 (since 9 cannot be taken from 5) viz.] 6 is 15^a, then, 1, that I borrow, and 6 is 7: and so on.—In the DIVISION-sum (III) it appears that—All the tabulating necessary to find the quotient, is only to double the divisor: for, the total next less than (the 1st dividend) 987, is 908: therefore quote 1: then (the 2d dividend) 196 has no total less; therefore quote 0: then the next total less than (the 3d dividend) 1965, is (the 2d total, viz.) 1936; therefore quote 2.—And, in like manner, may be tabulated any sum, by steps, as there shall be occasion.

^a N.B. 15, being the last sound in the mouth of the operator, does more readily and certainly remind him of what he borrowed, than in the common way of subtraction; which is no small advantage to this method.



WEIGHTS.

*Troy Weight, for Gold, Silver, Jewels, Grains,
and Liquors.*

Monyers reduced to Blanks.

1 MON. Pěřit-ef. Droit-okŷ. Mĭie-abth-udŷ. Grain-
dizozy.

Goldsmiths and Apothecaries Weight reduced to Grains.

2 (GOLD.) Căr-ö¹. Pen-dö (Pö.) Scrup-dŷ. Drăni-
auz. Ounce-okŷ. Pö-loisy.

*Averdupois Weight, for Baser-metals, Bread, Mercery,
Grocery, &c.*

Wool reduced to Pounds.

3 Clove-oi. Stone-lö. Töd-ek. Weigh-beid. Sack-
tauf. Last-fisei.

Other Things.

4 Pound-ounce-as. Hun-pounds-abe. hún-Fother-
ún-are: Tun-ez.

Hebrew Weights, reduced to Grains.

5 Zuza-*lf*. Bek-*azei*. Shěk-*ěbei*². Măn-*ěbeizy*. Tăl-*amnyth*.

Greek and Roman Weights.

6	{	Lens, <i>kūrābe</i> . Lept- <i>aurek</i> . Chalch- <i>ă, rě</i> . Sil- t, <i>rěk</i> . Ob- <i>ou-trek</i> .	}	6
7	{	Script- <i>ak, traf</i> . Dra- <i>lf, ouraf</i> .—Sext- <i>oid, aurp</i> . Sicil- <i>azu, erp</i> .	}	7
8	{	Duell- <i>bol, uroi</i> . ——— Unc- <i>fip, roi</i> . ——— Libra- lefu, <i>lroi</i> .	}	8

Proportions.

- 9 GRAINS English-*bif, re* make French-*alei*, Dutch-*apou*.
 10 OUNCE has grains Avěr-*ofei*, Troy-*fouz*³: as *ey* to *oi*⁴.
 11 POUND Aver-heavier than Troy by 2 ounces, 4 drams, and 2 scruples.

Abbreviatures explained.

Bekah, 5. Carat, 2. Chalchos, 6. Drachma, 7. Duella, 8. Hundred-weight, 4. Lepton, 6. Maneh, 5. Obolus, 6. Penny-weight, 2. Pound, 2. Scrip-
 tulum, 7. Scruple, 2. Sextula, 7. Shekel, 5. Si-
 cilicus, 7. Siliqua, 6. Talent, 5. Uncia, 8. Zu-
 zah, 5.

Synonyms.

Gramma, scruple. Keration, siliqua. Lens, grain. Litra, libra. Quintal, hundred-weight. Sitarion, grain.



1 N.B. The *Grains*, us'd in weighing *Diamonds*, are somewhat lighter than those us'd in gold, &c.

2 i. e. 218, according to Bp. Cumberland: 268, according to father Mersenne.



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MOON.

Cycle and Epact.

Golden's remainder of year-more-1, divided by 19¹.
Epact's the cycle into *ab*: above *iz* by *iz*, the remainder².

Change and Age.

New's the remainder of month-from-march and epact, less *iz*, *auz*³.

Ap. Se. No. Jun. less *en*—For Jan. Mar. o. Feb.
 Apri. 1 add.

Full's 15 days from the change—Waning, east;
 Growing, west is enlightened⁴.

Rising and Setting.

At Sun-set, sets *New*, rises *Full*; and, each day,
 minutes *ub* more.

Shining (in Waning) Subtract (in Encreasing) Add
 to Sun-rise,-set.

Southing and Tides.

Southing's the age into *ok* by 60: from *al*, the excess take⁵.

High-water at London-bridge: Two hours and a half
 after Southing⁶.



1 e. g. $1737 + 1 = 1738 \div 19 = 19$; remainder 9, for the cycle, or *Golden Number*.

2 e. g. 9 (the cycle) $\times 11 = 99 \div 30$ (as being above 30) $= 9$: remainder 9 for the epact.

3 e. g. May 20 (1737) What is the moon's age? Answ. 3 (the number of the month from march, inclusively) $+ 9$ (the epact) $= 12 - 10 = 2$: the day of the new moon, when it is said to change. So the moon, on the 20th of may, is 2 days old.

4 i. e. The Horns are turned, in *Decreasing* (from the Full) West-ward; in *Encreasing* (from the New) East-ward.

5 e. g. April 15 (1737) When comes the moon to the meridian? Answ. The moon's age is 26: the excess above (*al*) 15, is 11.

Then $11 \times 48 = 528 \div 60 = 8$ h. 48 m. for the Southing.—For the reader working, the rule may be thus expressed: “ *Age into 4, by 5: into 12 the remainder gives minutes.*” e. g. $11 \times 4 = 44 - 5 = 8$ h: remainder $4 \times 12 = 48'$.

6 e. g. Apr. 15 (1737) the moon Souths at 8 h. 48. Then 8 h. $48' + 2$ h. $30' = 11$ h. $18'$. (N.B.) If the total amounts to more than 12, the excess shews the hour.



THE 12 SIGNS

or Portions of the Zodiac, named from Constellations once in them: their Names, Characters, and corresponding Months; with a Key to find the Sun's Place on any Day¹; and on what Day of the Week the 1st Day of any Month happens².

1	Ar	ma	n ¹	a ²	♈	Aries
2	Taur	apr	ou	f	♉	Taurus
3	Gěmĭ	may	k	s	♊	Gemini
4	Cance	jún	p	e	♋	Cancer
5	Lě	júl	p	f	♌	Leo
6	V	au	p	p]	♍	Virgo
7	Líb	se	p	ĭ	♎	Libra
8	Sc	oc	s	ŭ	♏	Scorpio
9	Să	no	p	ă	♐	Sagittarius
10	Că	de	k	t	♑	Capricornus
11	Aquă	ja	n	s	♒	Aquarius
12	Piscě	feb	ba	d	♓	Pisces



1 The method is this: To the day of the month ($\div 11$ for the old style) add the number signified by the numerals *n, ou, &c.* the Sun (-30 , if above 30) is in the degree of the sign corresponding to the day of the month. E.G. Feb. $10 \div 11$ (for the old style) $\div 11$ (for the numeral *ba*) $= 32 - 30 = 2^\circ$ of ♓.

2 Thus: From the day on which March 1st happens (V. March) for any other month, count forward so many days as are signified by the numerals *a, f, &c.* E. G. Mar. 1st, 1737, was tuesday: therefore Apr. 1st [counting (f) 4 onwards, tuesday being one] is

friday: and, consequently, the 8th, 15th, 22d, 29th, are fridays; whence may be known the rest. [N.B. Jan. and Feb. are reckoned from Mar. of the preceding year.]



SUN,

The Time of its rising each Day.

1 Jän-o¹. 7 Febr-ei. 6 Mar-bÿ. 5 Apr-ou. 4 M-ast.
 4 Júl-p. 5 Aug-at. 6 Sept-ad. 7 O . . be. 8 Na-l†.
 †JUN-da, the Longest, *i fi*²—the Shortest, *ei boi*,
 DECEM-da†.

For the intermediate Days.

Sought, into 60, by All, gives Min. fewer 1st line,
 more 2d³.

The Time of its Setting, each Month, &c.

Setting's the complement of rising to 12; and, doubled, the day gives⁴.

Cycle and Dominical Letter.

Cycle's the remainder of year-more-9 by *ek*⁵: if 0,
*ek*⁶.

ek cycle's A; *ep*, B; and so on⁷; e'ery 4th has 2⁸
 (next

after these 3ds; *d* E, *au* G, *a-y* B, *bo* D, *aei* F, *de* A,
dau C) and

FORMER is used till Feb-do, in Leap-years; and, after,
 the LATTER.

*To find the Sun's Place in the Zodiac, V. Signs.*

1 i. e. On Jan. 4. the Sun rises at 8.

2 i. e. On Jun. 21, New style (which is the Longest day) the Sun rises at 3 h. 43'.

3 i. e. The day *sought* (reckoned from the day of the Sun's rising) multiplied into 60, and divided by the number of *All* the days between the day of the Sun's rising (specified) in any month, and the day of its rising in the next, gives the Minutes fewer (or,



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CHRONOLOGY.

Roman Manner of Dating.

- (1) Kal. Non. Id. (2) Pridie. (3) Tert. quart: (nb)
 The day sought subtract from
One more than Ide-None-days; *Two* more than the
 months, for the Kalends.



I. (i. e.) For the days on which the Kalends, Nones, Ides of any month happen (V. Months) write (e. g.) *Kal.* Dec. on the kalends of december, viz. the 1st day of December, (2) On the day preceding each of them, write (e. g.) *Pridie* Kal. Dec. i. e. pridie kalendas decembris, on the day before the kalends of december, viz. the 30th of november. (3) For the days backward, write *Tertio*, *Quarto*, &c. i. e. on the 3d, 4th, &c.

II. To find any of the days, e. g.—(1) 10th of december. What, in the Roman style? Answ. 10—14 (*One more than the days the ides happen on*)=4. i. e. 4to id. dec. Again (2) 4to id. dec. What, in the English style? Answ. 4—14=10. i. e. the 10th of december.—(1) 20th of november: Say 20—32 (*Two more than the number of the days in the month*)=12. i. e. 12mo. kal. dec. (2) 12mo. kal. dec. say 12—32=20.

EPOCHAS.

Their Commencement in the Julian Period.

World	<i>pauf</i>	764	of the World	<i>From the creation (A.M. or O.C.)</i>
CHRIST ^b	<i>opaf</i>	4714	of Christ	<i>birth of Jesus Christ (A. D.)</i>
Act	<i>óshí</i>	4683	Actian	<i>defeat of Amy at Actium.</i>
Agon. capit.	<i>opnou</i>	4799	Cirp ine	<i>instituto of the Capitoline games.</i>
Báb	<i>doke</i>	2482	Babylonian	<i>beginning of the Assyrian monarchy.</i>
Cyr	<i>oblí</i>	4183	of Cyrus	<i>end of the captivity under Cyrus.</i>
Del	<i>efan</i>	2419	Deluge	<i>Noah's universal Deluge.</i>
Dioclesi	<i>omnoi</i>	4997	Dioclesian	<i>persecution under Dioclesian.</i>
Exod	<i>idúp</i>	3217	Exodus	<i>Going of the Isra out of Egypt.</i>
Heg	<i>util</i>	5335	Hegira	<i>Flight of Moh to Mecca.</i>
Indict	<i>uzel</i>	5025	Indos i	<i>institution of the Indictions.</i>
Juli	<i>ospo</i>	4671	of Julius	<i>reft of the cabal under J. Caesar.</i>
Nábon	<i>inqa</i>	3967	of Nabonassar	<i>reign of Nabonassar king of Babylon.</i>
Olympic	<i>iniké</i>	3938	Olympic	<i>institution of the Olympic games.</i>
Philip	<i>óhni</i>	4393	Phillipic	<i>succession of Phi to Alex. the Great.</i>
Rom	<i>insa</i>	3971	Rome bu It	<i>hli ing of the city of Rome (U.C.)</i>
Sel	<i>ofyl</i>	4403	Contracts	<i>reign of Selencus king of Syria, &c.</i>
Spanish	<i>ospau</i>	4676	Spanish	<i>defeat of the Spaniards by Calvinus.</i>
Tróy	<i>tule</i>	3532	Troy tak n	<i>taking of the city of Troy.</i>
Yezdegir	<i>ulos</i>	5344	Yezdegirdic	<i>death of Yezdegird king of Persia.</i>

^b CHRIST born A. M. *figza*. Jew-*tpaud*. Greek, ecc-*long*: civil-*ulson*.

To find

1. { *The year of the Julian period corresponding to any year in any Æra.*
 2. { *Any year of any Æra by the corresponding year of the Julian period.*
-
- 1) { JUL— for *After* add Comm-less-1— for *Afore* take from Comm.
 - 2) { ÆR— *After*, Comm-less-1 take for Corr — but *Afore*, Corr. from Comm.



1. *What year of the JULIAN Period is the year 1737 (1) before Christ? (2) after Christ?—*—Answ. (1) 1737 (before Christ)—4714 (the year of the commencement of the Christian æra in the Julian period) = 2977. (2) 1737 (after Christ) + 4713 (the commencement-less-1) = 6450, the year of the Julian period.

2. *What year of the CHRISTIAN Æra is the year of the Julian period (1) 2977? (2) 6450?—*—Answ. (1) 2977 (the year of the Julian period corresponding to the year of the æra sought) —4714 (the commencement of the Christian æra) = 1737. (2) 6450 (the corresponding year) — 4713 (the commencement-less-1) = 1737.



* *For the Number of Years from the Creation to the Birth of Christ.*

—The *Christian* vulgar æra commences in the year of the world 4004, jan. 1 [according to Helvicus, Isaacson, &c. 3948]—The *Jews* place the creation of the world, Later by 242 years, viz. in 3762, oct. 7—The *Greek* historians, on the authority of the septuagint, Sooner by about 1490, or 1500 years, viz. the ecclesiastical, in 5494; the *civil*, in 5509.



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Quarterly.

Lády-mar,*el.* Midsum-jun,*ef.* Mich-sep,*dou.* Chri-
dec,*al.*

State Holidays.

Fíre-sep,*e.* Powd-no,*l.* Márt-ja,*ty.* Réstor-may,*dóu.*
Revo-feb,*at.*

MOVEABLE.

1 Before and after Easter. 2

1 { Sept-*st*². Sex-*us.* Shrove-*ón.* Qua-*fe.* Lent-*os.*
Pál-*p.* Maund-*i.* Good Fri-*d.*

EASTER's the first Sunday after first Full-moon after
March-*da.*

2 { Low-*oi*². Róga-*tu.* Asc-*in.* Whits-*on.* Trin-*lau.*
Ad-*eta.*

EMBER-*days.* We Fri Sát, after Quá Whit Ho Róod
Luci-*dec, at.*

EASTER TABLE. ³

*Paschal-full-moons for the Golden-numbers, with the
Hebdomadal Letters.*

1 A	<i>l</i>	<i>d</i>	8 A	<i>bei</i>	<i>c</i>	15 A	<i>a</i>	<i>g</i>
2 M	<i>el</i>	<i>g</i>	9 A	<i>oi</i>	<i>f</i>	16 M	<i>ea</i>	<i>c</i>
3 A	<i>bi</i>	<i>e</i>	10 M	<i>eo</i>	<i>b</i>	17 A	<i>n</i>	<i>a</i>
4 A	<i>e</i>	<i>a</i>	11 A	<i>bu</i>	<i>g</i>	18 M	<i>-eou</i>	<i>d</i>
5 M	<i>ed</i>	<i>d</i>	12 A	<i>f</i>	<i>c</i>	19 A	<i>-boi</i>	<i>b</i>
6 A	<i>by</i>	<i>b</i>	13 M	<i>eo</i>	<i>f</i>			
7 M	<i>iz</i>	<i>e</i>	14 A	<i>be</i>	<i>d</i>			

Use of the Table.

Súm from Hebdóm to Domín (of the year sought)
ádd to the Month's day.⁴

Synonyms, &c.

Ash-wednesday, 1st day of lent. Candlemas, puri-
fication of the virgin M. Crucifixion, good-friday.
Holy-thursday, maunday. Holy-week, last of lent.
John the Baptist, midsummer. Parasceue; good-fri-

day. Passion-week, last of lent. Pentecost, whitsun-tide, whitsontide. Processioning-day, ascension-day. Quinquagesima, shrove-sunday. Shor-(Shur-)thursday, maunday-thursday. Twelfth-day, epiphany.



1 i. e. The *nativity* of Christ is on *dcc.* 25. and so of the rest.

2 i. e.—*Septuagesima*-sunday is (st) 63 days *before* Easter [70 before the octave of easter]—*Low*-sunday is (oi) 7 days *after* Easter, and so of the rest.

3 The *Easter-table* consists of 5 verses, each ending at a period-mark; and may be read thus: “One-ald, two-melg, three-*ñbĩ* e. (four A *ě ñ*, five-medd.” &c.—Its Use is to find Easter-sunday for ever. V. n. 4.

4 e. g. A.D. 1737, the golden number is 9, the dominical letter B. then, against 9 (in the table) the hebdomadal letter is F. from thence to the dominical B. are (g a b) 3: which added to apr. 7 (the day of the month, in the table) gives apr. 10, for Easter-sunday.—So A.D. 1736, golden-number 8, 1st dominical-letter C: then from C (in the table) to C (dominic.) 7 + apr. 18 = apr. 25.



GEOGRAPHY.

In the following verses (which contain as much, I think, as is necessary to charge the memory with by way of foundation) I have given the most general divisions of the several parts of the terraqueous globe; beginning, in each, with the most northerly parts, and, in descending southwards, proceed (to the right) from west to east: so that children, with a few hints and occasional helps, may be able to find them, by themselves, and thereby fix them better in their memory; after which they will easily get the verses by heart, and be well prepared to consult the gazetteer, or to go through any system, with pleasure, to good advantage.

LAND.

*Continents, Isles, Peninsulas, Isthmus, Capes,
Mountains.*

CONTINENTS.

Europe, Africa, Asia, and America.

AF (8) Bar (féz mor a tún tripo bárc) Bi (dar) Egÿ
(ălex cair)

Zaár (zu) Ne (tómb) Nubi (dáng) Gui (ma why' be
lo cáng) Ethi (mon caf)

AM (23) Green Brit Wa La Cán Acad Eng Jers
Pén Mary Virg Car

Geor Kent. Flór (aug pens) Mex (guác mi ta jú
chi guat hon ver)

Firm (pa ca már venez ánd gra po cóm dari) Pér
(quito lím charc)

Am: Brăsi (sál seba vin) Chil (já) Para (guai tucu
plat) Mag

AS (5) Tăr (ă síb che thi) TúrK (tu na cúrd sy di
ár) Pe (der isp gomb)

Ind (mōg āg beng: vis go bi mál: pe to sí co) Chi
pek nank

EUK (18) Nor-berg. Swede-stock. (Scot-ed'n. Ire-
dúblin. E-london)

Dén-cōp. Hōl-amst. Fland-brúss. Ge-vién. Po-wa.
Russ-petre: France-par.

Switz-basil. Húng-presb. Port-lisb. Spáin-mod. Itál-
ro. Tu-constant.

AFRICA.

Barbary comprehends the kingdoms of Fez, Mo-
rocco, Algiers, Tunis, Tripoli, Barca. *Bildulgerid*:
Daara. *Egypt*: (ch. cit.) Alexandria, Cairo. *Zaura*:
(ch. prov) Zuenziga. *Negroland*: Tombute. *Nu-
bia*: Dangola. *Guinea*: Malaguette, Whydaw, Be-
nin, Loango, Congo, Angola. *Ethiopia*: Monemugi,
Monomotapa, Caffraria.

AMERICA.

Greenland, New-Britain, New-Wales, Labrador,



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ISLES: Zě-den. Az-pö. Să Sic Ca Cy-méd. Ma Ca-
bárb. He-gui. Mad-eth.

Mald Ceyl Súm Bo' Su Jáv Phi Mo Ladr-ind. Newf-
la. So-south-seas.

Bér-flo. Bu Cú Jam Hi Ríc, Carib (ánt ne mo barb)
mex. Fueg-mag.

PEN: Jů-de. Mó-gre. Pre-tárt. Afri. Cámb. Malac-
índ. Mex-amer-north.

MOUNT: Chěvř-scot. Pyr-spain. Alps-ít. Cauca-
tárt. Apalach-n-am.

CAPES.

Land's-end, Lizard, Start-point (of) *England*.
Finisterre, St. Vincent's, *Spain*. Blanco, Verd,
Good-Hope, *Africa*. Comorin, *Malabar*. Horn,
Fuego.

ISLES.

Zealand (in) *Denmark*. Azores (west of) *Portu-
gal*. Sardinia, Sicily, Candia, Cyprus (in the) *Medi-
terranean*. Madeiras, Canaries (against) *Barbary*.
St. Heléna, *Guinea*. Madagascar, *Ethiopia*. Mal-
dives, Ceylon, Sumatra, Borneo, Sunda, Java, Phil-
ippines, Moluccas, Ladrões, - *East-Indies*. New-
foundland, *Labrador*. Society-Isles (in the) *South-
Seas*. Bermudas (against) *Florida*. Bahamas, Cu-
ba, Jamaica, Hispaniόla, Porto-Rico: Caribbees
(Antigua, Nevis, Montserrat, Barbadoes) *Mexico*.
Fuego, *Terra-Magellanica*.

PENINSULAS.

Jutland (in) *Denmark*. Morea, *Greece*. Precop,
Tartary. Africa. Cambaya, Malacca, *East-Indies*.
Mexico, *North-America*.

MOUNTAINS.

Cheviot (between) *Scotland* and *England*. Pyrenees,
Spain and *France*. Alps, *Italy* and *France*. Caucasus
(in) *Tartary*. Apalachian, *North-America*.

WATER.

Oceans, Seas, Gulfs, Straits, Rivers, and Lakes.

OCEANS: Hyp. Ethi. East. Alt-West. Paci-South-
del Zur. Ice.

SEAS: Ba de-Swede. Chan-éng. Med-eu, áfr: Black-
eu, as. Casp-turlar.

GULFS: Bo Fi-swéde. Ven-itál. Red-arab. Pers.
Béng. Baff Hu-north-am.

STRAITS: Sound-bált. Gi-med. Hét-bla. Ba-réd.
Sun-in. Húd-bu. Da-baff. Mag.

LAKES: Lad O-russ. Ne Lo-scot. Ge Lu-switz.
Baba-pérs. Bo-ne. Par-firm.

RIV. Vö-că. Dan-bla. Rhi-ger. Kh Eb Níl-me T.
Eu-pers. Ga-be. Mis-mex.

OCEANS.

Hyperborean or northern. Ethiopian. Eastern.
Atlantic or western. Pacific or south, or mare del
Zur. Icy near the South Pole.

SEAS.

Baltic, east of *Denmark* and *Sweden*. Channel,
south east of *England*. Mediterranean, between
Europe and *Africa* and part of *Asia*. Black sea,
between part of *Europe* and *Asia*: Caspian, in *Great
Tartary*.

GULFS.

Of *Bothnia* and of *Finland*. in *Sweden*. Of *Ve-
nice*, east of *Italy*. Red-sea, between *Arabia* and
Africa. Persian Gulf. Bay of Bengal in *Asia*. *Baf-
fin's* and *Hudson's* Bays in *North America*.

STRAITS.

Sound (of the) *Baltic*. *Gibraltar*, *Mediterranean*.
Hellespont, *Black-sea*. *Babelmandel*, *Red-sea*. *Sunda*,
Indian-ocean. *Hudson's*, *Button's-bay*. *Davis's*,
Baffin's-bay. *Magellan*, *South America*.

LAKES.

Ladoga and Onega, western part of *Russia*. Loch-Ness and Lomond (in) *Scotland*. Lakes of Geneva and Lucern, *Switzerland*. Babacombar, *Persia*. Bornou, *Negroland*. Parime, *Terra Firma*.

RIVERS.

Volga (falls into the) *Caspian-sea*. Danube, *Black-sea*. Rhine, *German-ocean*. Rhone, Ebro, Nile, *Mediterranean*. Tigris, Euphrates, *Persian-gulf*. Ganges, bay of *Bengal*. Mississippi, bay of *Mexico*.

*A more particular account*

of the several countries of Europe may be exhibited, so as to give a precise idea of the situation of each sub-division, after the manner of the following specimen: in which (beside what was proposed in general, note 1.) such as are contiguous *Southward*, are *joined*; as in weLa-: such as are contiguous *Westward*, are *hyphenated*; as in Che-De- &c.

ENGLAND.

Its Forty Counties.

Nor cum-dúr: weLa-yórk: che-de-not-linc: shróp-sta-le-rut norf:

Hér-wo-wa-nórtha: Bed-hunt-cámb-suff: mon-gl-óxfo-buck-hert-ess.

Som--wilt--bérk--middlesex: corñ--dev--dors--hámp-surrey-kentSuss.



FIRST MERIDIANS

On either Side of Teneriffe.

(Eást) London-as (West) Fer-d. Jag-s. Nicol-oi.
Corvó-bei. Bras-bou.



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NEW TESTAMENT.

Its 27 Books.

Matt-*fa.*² Mar-*ot.* Thess-*lét.* Pe-*lo.* Gal Cor Róma-
loi. Luke-*sa.*

Phil Col Ephés Phile Jáme-*se.* Heb Act-*si.* Timothy
Tít-*su.*

Tim Peter-*aup.* Jude-*pá.* Revel-*ous.* John-*noí.*—
³*doi in iau.*



1 i. e. *Elihu* is more probably supposed to be the author of the book of *job*, about 1730 years before the birth of Christ. So, *Moses*, the author of the *pentateuch*, flourished in the year before Christ 1400. And so of the rest.——N. B. *Ezra* is thought by the Jewish doctors to have writ the *chronicles* [the 36th chapter of Genesis, the last of Joshua and Jeremiah; and to have revised and settled the canon of the Old Testament.]

2 i. e. *Matihew* writ his Gospel about the year of our Lord 41. And so of the rest.

3 i. e. 27 books (from the year 41 to 97) in 36 years.



ENGLAND.

*Its Kings, since the Conquest, with the Commencement
of their Reigns.*

WILL Conq-*sau,*¹ Ruf-*koi.* HEN 1st-*ag.* STEPH-*bit.*
HE 2d-*buf.*

RICH 1st-*bein.* JOHN-*ann.* HEN 3d-*das.* EDWARD
1st-*doid.*

Ed. 2d-*typ,* 3d-*tép.* RI 2d-*ipp.* HEN 4th-*toun,*
5th-*fat,*

6th-*fed.* Ed 4th-*faub,* 5th, RI 3d-*feit.* HE 7th-*feil,*
8th-*lyn.*

ED 6th-*lóp.* MARY-*lut.* ELS-*luk.* JAME 1st-*syt.* Că
1st-*sel.*

CAR 2d-*són.* JAME 2d-*seil.* WILL MA-*sein.* ANN-*py'd.*
Geo-*paf,* pep.

I i. e. *William the conqueror* began his reign (accounting the year to begin January 1) A. D. 1066.——N. B. 1000 is omitted throughout this list.



MONARCHIES.

*The grand or universal ones, their Rise, Fall,
and Continuance.*

ASS: Nīn(A.M.)-āpók, Sar-telú (BAB-*ifan*, PERS-*táuboi*, GREC-*isel* ÷

Cáss-ma-gre. Lys thrac-he-bós. Ptolem aé-lib-a-pál-sy. Seleuc as.)

ROM: Jül-iny'd, Jov-otat ÷ East, Wést: taken Cón-loze, Rom-otun:

A'tar(A.D.)-obz. Attī-flă. Géns-ful. Od-ops. Theód-
oni. Tot-lop.

i. e. The——Assyrian Monarchy begun in *Ninus* (A. M.) 1748, and ended with *Assaraddinus* in 3235; being swallowed up by the *Babylonian*, which ended (with *Nabonadius*) in 3419, (when *Cyrus* reigned over all Asia,) so the kingdom was translated to the *Persians*: from whom (by the conquest of *Darius Codomannus*) in 3617, *Alexander* translated it to the *Grecians*: after whose death, in 3625, it was (÷) divided (after the confusion of a few years) among four of his followers. *Cassander* had *macedon* and *greece*: *Lysimachus* had *thrace*, with those parts of Asia that border on the *hellespont* and the *bosphorus*: *Ptolemy* had *ægypt*, *libya*, *arabia*, *palestine*, and *cælosyria*: *Seleucus*, all the rest of *asia*. The——Roman monarchy begun with *Julius Cæsar*, in 3902; and ended in *Jovian* in 4313: after whose death it was (÷) divided into the *Eastern*, and *Western* empires: the former of which ended by the taking of *Constantinople* (under *Constantine Palæologus*) in 5402; the latter by the taking of *Rome* (under *Honorius*) in 4359, A. D. 410, by *Alaric*, king of the *Goths*: after whom it was overrun and ravaged by *Attila*, king of the *Huns*, in 451; by *Genseric*, the *Vandal*, in 455; by *Odoacer*, king of the *Heruli*, in 476; by *Theodoric*, king of the *Ostrogoths* in 493; *Totilas*, the *Ostrogoth*, in 547.

WAR.

Bodies of Soldiers.

R] Déc-by. Cen-ázy. Man-eg. Turm-ig. Cohor-áug.
Legi-auth. Ph-eith.

E] Comp-uz,ag. Squad-ag,eg. Ba-lg,eíg. Brigad-
úth,bag. Reg-ig, auth.



1. The ROMAN *Legion* consisted of (at a medium) 6000 men : though the number was different, at different times, from 3000 to 6666. And, in proportion, the other bodies, viz. *Decuria*, 10. *Centuria*, 100. *Manipulus*, 200. *Turma*, 300. *Cohors*, 600. *Phalanx*, 8000.

2. AN ENGLISH *Regiment* is from 300 to 1000 men. And, in proportion, the other bodies, viz. *Company*, 50-100. *Squadron*, 100-200. *Battalion*, 500-800. *Brigade*, 1000-1100.



NATURAL PHILOSOPHY.



PHYSICS.

ANNUITIES.

Their Value, for several Ages of Life.

A-bz-dei'. Az-bí,fc. Ez-bě,pei. Iz-bă,pe. Oz-ăz,ÿp.
Ol-n,oub.

Uz-ou,eb. UI-k,ub. Auz-oi,sy. Aul-ău,lo. Oiz-l,id.



1 i. e. for (A) 1 year of age, the value of an annuity is (bz,dei) 10,28 years purchase. And so of the rest. V. Halley, ap. Lowthorp, vol. iii. p. 669.



-ARKS.

Of Noah, and of the Covenant or Testimony, their Dimensions in Cubits.

(Cov) L-e,re. Br-á,re. D-a,ré. (NOAH) L-ig. Br-uz.
D-íz; for Birds-eg. Qu-ag.



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1 As is evident in perfumes, &c.

2 At which rate there must fly out of it, as it burns, in the second of a minute, 418,660,000.000,000.000,000.000,000.000,000.000,000.000,000 particles: vastly more than a 1000 times a 1000 millions the number of sands the whole earth can contain; reckoning 10 inches to 1 foot, and that 100 sands are equal to 1 inch. V. Nieuwent. Rel. Phil. vol. iii. p. 858.

DUCTILITY

Of Bodies, very great.

Microscópicá SPIDERS¹ spin at-a-tíme, at least, threads-*auth*.

GLASS may be dráwn² as a web, and knit to the 4th of a line space³.

GOLD, on Silver-wíre, is drawn⁴ to the párt of an inch-*bom*.



1 i. e. Such as are not visible but by a microscope.

2 “As fine as a spider’s web;” but not long enough to be woven.

i. e. So, that the space in the middle of the knót shall not exceed one 4th of a line, or one 48th of an inch.

4 “To the 14-millionth part of an inch, in thinness:” and yet is so perfect a cover to the silver, that there is not an aperture to admit alcohol of wine (the subtilest fluid in nature) nor even light itself. Reaumur.



EVAPORATION

From Water, its Quantity.

FOOT-square, by héat, in a day, *eváporates* hálf of a wine pint¹.

So, Medi tuns-*udky*m²; near a thírđ more than’s brought by the rivers³.



1 According to experiments made by Dr. Halley, ap. *Miscell. Curios.* vol. 1. To which it may be added, that the winds do sometimes carry off more than rises by heat.

2 Estimating the *Mediterranean* at 40 degrees long, and 4 broad.

3 V. Rivers. and, consequently, from the whole watery surface abundantly enough to furnish all the dews, rains, springs, rivers, &c. that are conveyed into the ocean.



MAN.

Life, Marriage, Parts, Perspiration.

LIVE, out of *úg*, but—at *Aú*, so¹ —at *As*, *fy*—ät
Es, *bñ*—ät *Is*, *bau*

&——at *Os*, *áz*——ät *Us*, *au*——&——at *Aus*, *ĩ*——
ät *Ois*, *a*.

MARR. *a* in *úzf*²: *bir-f*³ (to *búr* as *a,áu* to *a*⁴)
máles-bo to *fem-at*⁵.

BONES-*eni*. MUSCLES-*len*. TEETH-*íd*——BLOOD as *ag*
to *aany*⁶,

Béats, in an hour, times-*óth*: and an ounce, at a
time, is discharged⁷:

52 féet in a minute; as *sépt-ag* to 1 in the ex-
tremes⁸.

PERSPIRE through *póres* (*belth*-whereof by óne grain
of *sánd* may be covered)

5 parts of 8 (ă *dăy's* *fcód*) from hours 5, after *méals*,
to the 12th, 3⁹.

1 i. e. Of the children born, out of 100, there are living, at 6 years of age, but 64. And so of the rest. V. Halley, ap. Lowthorp, vol. iii. p. 669.——N.B. On observations of this nature, drawn from the bills of mortality, is computed the value of *annuities* for different ages of life. V. Annuities.

2 i. e. 1 in 104 *Marry*. King.

3 i. e. Marriages, one with another, do each produce 4 births. Derham.

4 i. e. *Births* to *Burials* are as 1, 6 to 1. Derham.

5 i. e. *Males*, born, to *Females*, are as 14 to 13. Graunt.

6. i. e. In a body, weighing 160 pound, 100 thereof are *Blood*; understanding thereby not only the fluid contained in the veins and arteries; but also that in the lymphæ-ducts, nerves, and the other vessels, secreted from it, and returned into it. Keil.

7 i. e. 250 pounds in an hour; at the rate of the whole mass, in 24 minutes.

8 i. e. The blood is driven out of the heart into the great artery with a velocity, which would carry it 52 feet in a minute: a velocity to that of its motion in the remotest branches, as 100 septillions [7th period] to 1.

9 Within 5 hours after eating, there is perspired about 1 pound; from the 12th to the 16th scarce half-a-pound. Sanctorius.



RIVERS.

The Quantity of their Waters.

At Kingstön-bridge, THAMES (yards Broad-ág, Deep-i)

2 mile an hour Runs¹:

tuns-ezm igh in a day; rh e ti po ni do niest nieper
akdoim².



1 In a day, 48 miles, 84,480 yards; which multiplied by (3 times 100, the profile of water at the bridge, viz.) 300 yards, gives 25,344,000 cubic yards of water, i. e. 20,300,000 tuns.

2 The most considerable rivers that fall into the MEDITERRANEAN sea are the *Rhone, Ebro, Tiber, Po, Danube, Nile, Don, Niester, Nieper*. Each of these is supposed to carry down 10 times as much water as the Thames, (not that any of them is so great; but so to allow for the other lesser rivers that fall into that sea.) Now the water of the Thames being computed, as above, at about 20,300,000 tuns; the 3 rivers aforesaid will amount, each, to 203,000,000; in all, 1,827,000,000 tuns. V. Evaporation.





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EXAMPLE FOR 1752.

$$\begin{array}{r}
 4) 17 (1 \\
 \underline{\quad} 2 \\
 4 \text{—} \\
 \quad 2 \\
 \quad 6 \\
 \underline{\quad} \\
 \quad 4 \\
 \quad 52 \\
 \quad 13 \\
 \underline{\quad} 7 \\
 7) 69 (6 \\
 \underline{\quad} \underline{\quad} \\
 \quad 9 \ 1 = A.
 \end{array}$$

By the Dominical Letter, to find on what Day of the Week any Day of the Month will fall throughout the Year.

At Dover dwells George Brown, Esquire,
Good Christopher Finch, and David Frier^a.

EXAMPLE FOR MAY 9, 1752.

A being the Dominical Letter.

$$\begin{array}{r}
 1 \text{ May} = B = \text{Monday} \\
 7 \\
 \underline{\quad} \\
 8 = \text{Monday} \\
 1 \\
 \underline{\quad} \\
 9 = \text{Tuesday.}
 \end{array}$$

^a See this noticed at page 94.

To find the Golden Number, Cycle of the Sun, and Roman Indiction.

When one, nine, three, to the year have added been,
Divide by nineteen, twenty-eight, fifteen:
By what remains each cycle's year is seen.

EXAMPLES FOR 1752.

$$\begin{array}{r} 1752 \\ 1 \\ \hline 19)1753(92 \\ 43 \\ 5 = \text{G. No.} \end{array}$$

$$\begin{array}{r} 1752 \\ 9 \\ \hline 28)1761(62 \\ 81 \\ 25 = \text{Cy. S.} \end{array}$$

$$\begin{array}{r} 1752 \\ 3 \\ \hline 15)1755(116 \\ 25 \\ \hline 105 \\ 15 = \text{Rom. Indict.} \end{array}$$

A general Rule for the Epact.

Let the cent'ries by four be divided; and then
What remains multiplied by the number seventeen;
Forty-three times the quotient, and eighty-six more
Add to that; and dividing by five and a score;
From eleven times the prime, subtract the last quote,
Which, rejecting the thirties, gives th' epact you sought.

EXAMPLE FOR 1752.

4)17(1	G. No. = 5
— 17	11
4	—
43	55
—	11
172	—
86	30)44(1
17	14 = Epact.
—	
25)275(11	
—	

To find the Epact till the Year 1900.

The prime wanting one, multiplied by eleven,
And the thirties rejected, th' epact is given.

EXAMPLE.

G. No. = 5
1
—
4
11
—
30)44(1
14 = Epact.

To find Easter Limit, or the Day of the Paschal Full Moon, from March 1, inclusive.

Add six to the epact, reject three times ten,
What's left take from fifty, the limit you gain :



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To find the Age or Change of the Moon.

Janus 0, '2, 1, 2, 3, 4, 5, 6,
8, 8, 10, 10, these to the epact fix,
The sum, bate 30; to the month's day add,
Or take from 30, age, or change, is had.

EXAMPLE, MARCH 10, 1752.

Ep. = 14

1 = No. of the Month

—

15

10 = Day of the Month

—

25 Days = Moon's Age.

30

15

—

15 March = Change.

*To find the Time of the Moon's coming to the South,
and of High Water at London Bridge.*

Four times the moon's age, if by five you divide,
Gives the hour of her southing: add two for the tide.

EXAMPLE.

Moon's Age, 9 days

4

—
5) 36 (7 h.

1

12 m = $\frac{1}{2}$ h.

7 h. 12 m. p. m. = Southing.

2 12 = High Water.

—
9

APPENDIX.

REPETES MOX ; SIVE EST NATURÆ HOC, SIVE ARTIS.

Sat. iv. lib. 2.

HORACE in the above words alluded to the Art of Memory (Mnemonic) more than once praised by Cicero, who has also given precepts for the improvement thereof, in the third book of Rhetoric addressed to Herennius, where he says, “the Art consisted of fixing in the mind, upon certain conspicuous places, and on images formed of the things to be remembered and that were applied in order to those places; which last mentioned served instead of paper, and the images as so many words, whose regular application performed the office of writing.” Quintilian likewise mentions Mnemonics in his Institutes of an Orator, and Pliny notices them in his Natural History, though the original inventor was the Greek poet Simonides, who at a feast recited a poem, in honour of Scopas, victor in wrestling at the Olympic games, who gave the entertainment, but having digressed in praise of Castor and Pollux, his patron would pay only half the sum promised, saying he must get the other part from those deities who had an equal share in his performance. Immediately after Simonides was told that two young men on white horses must needs speak with him. He had scarce got out of the house, when the room fell down, all the persons in it were killed, and their bodies so mangled, that they could not be known one from another: upon which Simonides recollecting the place where every one had sat, by that means distinguished them. Hence it came to be observed, that to fix a number of places in the mind in a certain order, was a help to the memory. This action of Simonides was afterwards improved into an art, the nature of which is this: form in the mind the idea of some large place or building, divided into a great number of distinct parts, ranged and disposed in order: frequently revolve these in your thoughts, till able to run them over one after another without hesitation, beginning at any part: then impress upon your mind many images of living

creatures, or any other sensible objects most likely to be soonest revived in the memory. These, like short-hand, or hieroglyphics, must stand to denote an equal number of other words, not otherwise so easily to be remembered. When therefore you have a number of things to commit to memory in a certain order, place these images regularly in the several parts of your building: and thus, by going over those parts, the images placed in them will be revived in the mind; which will give the things or words themselves in the desired order. The advantage of the images seems to be, that, as they are more like to affect the imagination than the words, they will be more easily remembered. Thus, if the image of a *lion* be made to signify *strength*, and this word be one of those I am to remember, and is placed in the porch; when, in going over the several parts of the building, I come to the porch, I shall sooner be reminded of that image than of the word *strength*. This is the artificial memory both Cicero and Quintilian speak of; but seems, indeed, a laborious way, fitter for assisting to remember any number of unconnected words than a continual discourse. Grecian orators also made use of the statues, paintings, ornaments, and other external circumstances, of the places where they harangued, for reviving, in progressive order, the topics and matter of their orations; and though among the Latins, Cicero averred that Mnemonics were the basis of his excellent memory, and their practice was cultivated by others of whom Hortensius, Crassus, Julius Cæsar, and Seneca, are particularly noticed, yet it is not known that any modern orator has made use of this art; however, in allusion to it, we still call the parts of a discourse *places* or *topics*, and say, *in the first place, in the second place, &c.*

The science appears to have lain dormant in after ages, till Raimond Lullé, about the close of the thirteenth century, brought it once more into notice, and it has ever since been called 'Lullé's Art.'

Scepsius-Metrodorus, Carneades, Hippias, and Theodectes, among the ancient Greeks, practised or wrote upon this method. The principal Romans are mentioned above. The writers upon the art, from the time of Lullé to near the end of the seventeenth century, principally consisted of Marsilius-Ficinus, Grataroli, Bruschius, Muretus, Schenkel, Martin-Sommer, Horstius, Johnston, Morhof, and Paschius; with Gebelin in the eighteenth.

Muretus declares that he dictated between two and three thousand unconnected Greek, Latin, or barbarous words, to a young Corsican practising that art, who immediately spoke them regularly in order, and afterwards repeated the same backwards without any error, asserting that he would undertake to say thirty-six thousand words in a similar manner.

Lambert or Lamprécht Schenkel, born at Bois-le Duc, in 1547, acquired celebrity for his discoveries in the Mnemonic art, and to propagate these, he travelled through the Netherlands, Germany,



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of Memory, at the beginning of the seventeenth Century, by L. Schenkel and M. Sommer;" but the modern restorer of this art is M. Aretin, who exacted from his pupils a promise not to write down his lectures; and though he permitted one pupil, M. Kaestner, to teach at Leipsic, yet it was on the express condition of not allowing his hearers to write. According to a book, said to have been composed by a child of twelve years of age, in the catalogue for the September fair at Leipsic, 1806, Mnemonica may be so taught as to give a memory to individuals of every age.

In France, the celebrated astronomer M. de Lalande bears testimony to the following facts: "I have witnessed the extraordinary effects produced on the memory by the method of M. de Feinaigle: one of his pupils is able to repeat, in any order, without the least mistake, a table of fifty cities in all parts of the world, with the degrees of longitude and latitude in which they are situated; the same is the case with chronology: in the *Annuaire* I have inserted 240 dates from ancient and modern history, and M. de Feinaigle's scholars repeat them all—an astonishing aid in the study of geography and history!"

Neither has this science been unattended to in Great Britain; for, besides Johnston already mentioned, who was a Scotch physician, practising at the courts of James and Charles I. Mnemonics are frequently mentioned by the great Chancellor Bacon, as in his *Treatise on the Advancement of Learning*; his *Natural History*, wherein he states, "The brains of some creatures, when their heads are roasted, taken in wine, are said to strengthen the memory: as the brains of hares, hens, deer, &c. and this faculty seemeth to be incident to those creatures that are fearful." In the tract *De Augmentis Scientiarum*, Bacon recommends theatrical action as an assistant to memory, and also alludes to the system of Simonides as founded on the theory of emblems, by saying, "Emblem reduceth conceits intellectual to images sensible, which always strike the memory more forcibly, and are therefore the more easily imprinted, than intellectual conceits." In the *Novum Organum* the science is again mentioned under the appellation of "Order or Distribution in respect to places, furniture, persons, animals, plants, words, letters, characters, &c."

Dr. Thomas Fuller, the author of the *History of the Worthies of England*, was also an adept at this art; he could repeat five hundred strange words after twice hearing them, and make use of a sermon verbatim, if he once heard it: after one inspection, he told in exact order both forwards and backwards the name of every sign from Temple Bar to the furthest part of Cheapside, in the city of London: he would write the first words of a number of lines near the margin of a sheet of paper, then by beginning at the head, would so completely fill up every line, and without spaces, interlineations, or contractions, so connect the whole, that the sense would be as perfect, as if regularly written in the ordinary way.

The following works were also expressly published on this sub-

ject: *Mnemonica, or the Art of Memory, drained out of the pure Fountains of Art and Nature, digested into three books: also a Physical Treatise of Cherishing Natural Memory; diligently collected out of divers Learned Men's Writings.* By John Willis, Batchelour in Divinity, 1661.

This author's method commences with rules for remembering common affairs, next words, then phrases, afterwards sentences, and long speeches. The second book treats of remembering without writing, next by certain verses purposely borne in mind, and by extempore verses. The third treats of Repositories, in which is a print of an imaginary building of hewn stone in form of a theatre, where all things intended to be remembered are supposed to be arranged in order, and he gives various specimens of ideas to exemplify his plan.

The Art of Memory, a Treatise useful for all, especially such as are to speak in public. By Marius D'Assigny, B.D. 1699.

This gentleman's mode begins with a chapter of the soul or spirit of man, and in the succeeding chapters, after treating of memory, temper, &c. he gives in the sixth a number of receipts for cleansing the hair, comforting the brain, and strengthening the memory, by means of plaisters, ointments, and powders; and in his other chapters proceeds with some instructions for remembering words and things; as, for instance, he states, that "others, instead of a house, palace, or building, have chosen such beasts as answer to all the alphabetical letters in the Latin tongue, dividing every one into five parts, viz. head, fore feet, belly, hinder feet, and tail, so that by this means the fancy may have one hundred and fifteen places to imprint the images of memorable things."

Heidegger, who about the year 1740 styled himself Surintendant de plaisirs d'Angleterre, at the Opera in the Haymarket, excelled Dr. Fuller, by being able to repeat the names of all the signs in their due order on each side of the way from Charing Cross to Aldgate, a space containing near one thousand four hundred houses, most of which at that period had signs.

Dr. Rees, editor of Chambers's Cyclopædia, says, "Mnemonic tables exhibit in a regular manner what is to be remembered of the same subject. And although the sciences ought to be taught scientifically as much as possible, and every thing should so be placed as to be intelligible and demonstrable from what has proceeded, yet tables ought not to be rejected, as they are helps to retain the doctrines of which the mind has had sufficient evidence. In such tables the properties of things are to be expressed concisely; illustrations and demonstrations should be left out, as the proposition should have been made sufficiently clear and certain before it is registered in the table—hence the contents of such tables ought only to be definitions and propositions relative to the subject. If a subject require a long table, it may be subdivided into smaller, by making first one of the most general heads, and referring from each of these to a separate table; by this means the order and connection of the whole will be preserved. Such

tables would produce a local and artificial memory, of great use to the retention and recollection of things; they would greatly facilitate a distinct view of the properties of their subjects, and facilitate recapitulation. Besides, as the expressions used in such tables ought to be concise, so as just to excite the idea of the object to be remembered, soon after that idea has been acquired; after (some time) a certain obscurity will be found in perusing the tables, which will give timely warning that our ideas begin to fade, and that they ought to be renewed; and this may be done without much trouble, if not delayed too long."

"Men complain of nothing more frequently (says Beattie in the Theory of Moral Science) than of deficient memory: and indeed every one finds, that, after all his efforts, many of the ideas which he desired to retain have slipped irretrievably away; that acquisitions of the mind are sometimes equally fugitive with the gifts of fortune; and that a short intermission of attention more certainly lessens knowledge than impairs an estate. To assist this weakness of our nature, many methods have been proposed; all of which may be justly suspected of being ineffectual: for no art of memory, however its effects may have been boasted or admired, has been ever adopted into general use: nor have those who possessed it appeared to excel others in readiness of recollection or multiplicity of attainments. The reader who is desirous to try the effect of those helps, may have recourse to a treatise entitled Grey's Memoria Technica, or Method of Artificial Memory: but the true method of memory is attention and exercise."

A writer in the Monthly Magazine for September, 1807, under the signature of Common Sense, tells us the Art of Mnemonics is founded simply on the powers of association in the human mind. Every person who has twice travelled the same road, will probably have brought to his recollection, during the second journey, the feelings of his mind, the subjects of conversation, and other trivial incidents which occurred during his first journey, the moment he comes again within sight of the successive objects; these recollections will take place exactly in the same order as the objects which bring them again before the mind. All that is wanted to enable us to retrace any set or succession of ideas, is an unvarying continuity of objects with which we can associate them. Any person who wishes to try an experiment on this power of association, need only make use of the succession of rooms, closets, staircases, landing-places, and other remarkable spots or divisions of his own house. Let him apply any word or idea to the several parts, in determined order, and he will find it almost impossible, in recalling the same, not to associate the idea or word previously annexed to each part; for example, a person may learn the succession of the kings of England in ten minutes, by annexing the name of each succeeding monarch to the successive rooms, &c. of the house, regularly descending or ascending; but any other permanent and familiar class of objects will, in general, answer the



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CHRONOLOGICAL WORDS

ON DR. GREY'S PLAN.



- Creotlif*, the creation of the world, 4004 years, A. C.
Deletok, the deluge, 2348.
Babctheop, the building of Babel, 2247.
Argonatlou, the Argonautic expedition, 1359.
Lycurgoudau, the birth of Lycurgus, 926.
Olympois, the Olympic games, 776.
Romput, the foundation of Rome, 753.
Ninevsyd, the destruction of Nineveh, 602.
Marathony, the battle of Marathon, 490. ■
Alexanderilau, the birth of Alexander, 356.
Ipsiza, the battle of Ipsus, 301.
Cheronitei, the battle of Cheronæa, 338.
Pharsalok, the battle of Pharsalia, 48.
Philippod, the battle of Philippi, 42.
Actita, the battle of Actium, 31.
Jesit, the resurrection of Jesus Christ, A. D. 33.
Herculanoïn, the destruction of Herculaneum, 79.
Jerusaloz, the destruction of Jerusalem, 70.
Romoaz, Rome sacked by Alaric, 410.
Romopy, Rome being taken by Odoacer, 470. §
Mahomupa, the birth of Mahomet, 571.
Mahomaudd, the Hegira of Mahomet, 622.
Mahomsid, Mahomet's death, 632.
Jerusalstau, Jerusalem taken by Omar, 636.
Charlemoife, the birth of Charlemagne, 742.
Charlemeiyz, Charlemagne crowned at Rome, 800.
Alfreiouz, Alfred divided England into counties, &c. 890.
Canutazap, Canute became king of England, 1017.
Macbazoy, Macbeth usurped the throne of Scotland, 1040.
Williazsau, England conquered by William of Normandy,
 1066.
Crusadazoul, the first crusade commenced, 1095.
Henrag, Henry I. commenced his reign, 1100.
Ghibelaglo, the Ghibelines and Guelphs disturbed Italy, 1154.
Jerusalagkoi, Jerusalem taken by Saladin, 1187.
Constantinopladyd, Constantinople taken by the French and
 Venetians, 1202.
Turkadouk, the Turkish empire commenced under Othman,
 1298.

- Bannockataf*, the battle of Bannockburn, 1314.
Crecatos, the battle of Crecy, 1346.
Poicatlan, the battle of Poictiers, 1356.
Otterbateik, the battle of Otterburn, 1388.
Tamerlafyd, the victory of Tamerlane at Angoria, 1402.
Agincourafal, the battle of Agincourt, 1415.
Columbafoud, Columbus discovered Hispaniola and Cuba, 1492.
Cabotafoun, Sebastian Cabot landed in North America, 1499.
Maximilalyz, Maximilian divided Germany, 1500.
Lutheralboi, Luther commenced the Reformation, 1517.
Charlalbon, Charles V. elected emperor, 1519.
Rhodalde, Rhodes taken, 1522.
Pavaldn, the battle of Pavia, 1525.
Romaldoi, Rome taken by Charles V. 1527.
Passalud, the treaty of Passau, 1552.
Vervalouk, the peace of Vervins, 1598.
Pragusez, the battle of Prague, 1620.
Barbadasel, the planting of Barbadoes, 1625.
Lutzasid, the battle of Lutzen, 1632.
Westphalasok, the treaty of Westphalia, 1648.
Nimeghaupei, the peace of Nimeguen, 1678.
Revolaskei, the revolution in Britain, 1688.
Gibraltapzo, Gibraltar taken by Admiral Rooke, 1704.
Blenheiboifyf, the battle of Blenheim, 1704.
Malplaboizon, the battle of Malplaquet, 1709.
Dettinapot, the battle of Dettingen, 1743.
Fontenboifu, the battle of Fontenoy, 1745.
Mindenaplou, the battle of Minden, 1759.
Grenadapoin, Grenada taken by the French, 1779.
Bastilapkou, the Bastile destroyed, 1789.
Louisapni, Louis XVI. guillotined, 1793.
Camperdapnoi, the Dutch defeated off Camperdown, 1797.
Nilapnei, the battle of the Nile, 1798.
Seringapnou, the taking of Seringapatam, 1799.
Trafalgakyl, the battle of Trafalgar, A. D. 1805.

CHRONOLOGICAL EXERCISES

ON DR. GREY'S METHOD OF ARTIFICIAL MEMORY.

Form memorial words expressive of the æra of the building of Babel, 2247 years before Christ.

The building of Thebes, 1493.

The building of Corinth, 1320.

The building of Tyre, 1252.

The burning of Troy, 1184.

The building of Carthage, 869.

The foundation of Byzantium, 658.

The taking of Babylon by Cyrus, 538.

The battle of Salamis, 480.

The battle of Mantinea, 363.

The battle of Arbela, 331.

The taking of Corinth by the Romans, 146.

The battle of Pharsalia, 48; and the death of Julius Cæsar, 44 years A. C.

The commencement of Trajan's reign, A. D. 98.

The commencement of Aurelian's reign, 270.

Charlemagne sole monarch of France, 772.

The battle of Roncesvalles, 778.

The commencement of the reign of Alfred, 872.

The commencement of the reign of Canute, 1017.

The commencement of the reign of Stephen, 1135.

The commencement of the reign of Margaret of Norway, 1286.

The battle of Angoria, 1402.

The battle of Barnet, 1471.

The revolution in England, 1688.

The battle of Dettingen, 1743.

The siege of Gibraltar, 1779.

The destruction of the Bastile, 1789.

The union between Great Britain and Ireland, 1800.

The surrender of Alexandria to the British troops, 1801.



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K S. King of Syria.	Ph. Philosopher.
L. Lawgiver, Learned Man, Author, &c.	Po. Poet.
Leg. Legate.	Pr. Prophet.
Mart. Martyr.	Q. Queen.
P. Pope.	W. War.
Pa. Patriarch.	= different Names of the same person.

Those words which have no letter at the end of them, denote some fact in history ; as *Abaneb*, the calling of Abraham.

The Italic letters represent the year before or after Christ. The small Capitals *m* and *p* in the middle of a word denote the year of the world, or of the Julian period, as *Troy^pil^mta*, &c.

Be careful to give the right pronunciation ; and note, that the accent, unless where otherwise marked, or when the penultima, or last syllable but one, is long by position, is always on the antepenultima, or last syllable but two.

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^a This and several other words in the *Memorial Lines* are contracted, as *Abmets*, *Al-Sédd*, &c. &c.

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THE
CONSTRUCTION AND USE
OF THE
GEOGRAPHICAL WORDS.

OF words consisting of two parts in the same character, joined with an hyphen, the first part denotes a city, town, people, &c. in a kingdom, region, or province, denoted by the latter: the words in *Italic* letters signifying places in ancient Geography; the words in *Roman* letters, places in modern Geography. Thus, *Abdér-thra*; *Abderā*, a town in ancient Thrace. *Agine-art*; *Agincourt* in *Artois*.

Words in a parenthesis denote that the place represented by the first syllable or syllables, is one of those represented by the latter, as, (Antig-lee) *Antigua*, one of the *Leeward* Islands; (Cub-ant) *Cuba*, one of the *Antilles*.

The letters N. E. S. W. either following or in a word, denote the situation of a place; as, *Antill-luc S*, the *Antilles* Islands, South of the *Lucayos*; *Madéir-barb W*. *Madeira* Isles, West of *Barbary*; *AmNEmoab*, the *Ammônites* resided on the North East of *Moab*. S preceding a word signifies Saint.

The letters G. S. denote Sacred Geography:

A small capital at the end of a word denotes a particular portion or division of the region designed by the preceding letters; as *Æqui-latN* points out that the *Æqui* dwelt in *Latium Novum*; *Batch-tartaP*, that *Batchiserai* is situated on the peninsula of *Little Tartary*.

Italics joined with an hyphen denote the latitude and longitude of a place: as, *Agrék-oit*, the latitude of *Agra* 28 deg. the longitude 73.

Italics joined with a comma denote the proportion of the kingdom, &c. to Great Britain; as, *Germt,ut*, Germany to Great Britain as 3 ,53 to 1.

Italics joined without an hyphen generally denote the distance from London or Jerusalem; as, *Pardel sc*. Paris from London about 225 miles; *Antiochig*, Antioch from Jerusalem about 300 miles.

Syllables joined with this mark = denote correspondent places of ancient and present geography: as *Ach=livad*; the ancient *Achaia*, the present *Livadia*.



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N. B. These Indexes do not contain quite all the words, but is hoped enough is inserted to answer every useful purpose.

FINIS.