

THE POSTSCRIPT – A PREAMBLE

The transmission of reliable information from one person to another, from one place to another and from one generation to another has ever been a necessary feature of the human enterprise. Of particular concern to lovers of truth is the status of the Bible in this regard. It has come down to us as a translation of early documents written largely in Hebrew and Greek, declaring itself to be the Inspired Word of God – a claim which hitherto has necessarily been accepted by faith alone. However, there are now good reasons for believing there to be some conferred property of the autographs which – having escaped the attention of generations of translators and others – confirms the Bible to be self-authenticating – the Work of a Divine, Supremely-gifted Author.



The

POSTSCRIPT



AN OVERVIEW



The Bible – the Inspired Word of God – is associated with two indisputable and potentially-significant facts, viz:

1. Familiar translations have come down to us as a collection of early documents written largely in Hebrew and Greek – here referred to as ***the scriptural autographs***.
2. Hebrew and Greek are ***alphanumeric languages***, i.e. for 23 centuries or so their letters have also functioned as numerals.



A possible **consequence** arising from these facts:

That Almighty God has incorporated additional information of a numerical kind into the autographs.

[In which case, we may fairly deduce that He has intended this to be eventually discovered, and used to accomplish great things to His Glory and Praise!]



But do the Scriptures themselves encourage us to take this possibility seriously? Yes, they do; here are two good reasons for believing so:

1. Christians are informed that the WORD OF GOD functions as a TWO-EDGED SWORD (Eph.6:17, Rev.1:16). Whilst the LEADING EDGE of this weapon must speak clearly of the GOSPEL, the nature and purpose of its SECOND EDGE remain to be defined.
2. Believers further learn (from the Lord Himself!) that Wisdom is to be found by counting a particular number that derives from the fair conversion of a sequence of letters (Rev.13:18). That number is 666.

BUT WHERE ARE WE TO BEGIN OUR SEARCH FOR EVIDENCE OF THE TRUTH OF THIS?

If the Lord has indeed seeded His Word with meaningful numbers, then we would surely expect His opening declaration – the fundamental assertion “In the beginning God created the heavens and the earth.” – to bear record of it. It is logical, therefore, that we begin our investigation with the 7 Hebrew words of Genesis 1:1, viz.

GENESIS 1:1						
7	6	5	4	3	2	1
הָאָרֶץ	וְאֵת	הַשָּׁמַיִם	אֵת	אֱלֹהִים	בָּרָא	בְּרֵאשִׁית
.earth the	and	heaven the	—	God	created	beginning the In



GENESIS 1:1 AS A NUMERICAL STATEMENT

An outline of some additional features of the Bible's
Opening Assertion.



THE HEBREW SCHEME OF ALPHABETIC NUMERATION

Place	1	2	3	4	5	6	7	8	9
Letter	א	ב	ג	ד	ה	ו	ז	ח	ט
Name	aleph	beyt	gimel	dalet	hey	vav	zayin	het	tet
Numeral	1	2	3	4	5	6	7	8	9

Place	10	11	12	13	14	15	16
Letter	י	כ	ל	מ	נ	ס	ע
Name	yud	kaph	lamed	mem	nun	samech	ayin
Numeral	10	20	30	40	50	60	70

Place	17	18	19	20	21	22
Letter	פ	צ	ק	ר	ש	ת
Name	pey	tsadey	quph	resh	shin	tav
Numeral	80	90	100	200	300	400

Observe that 5 of the letters have 'end forms' (the red characters); these are used instead of the standard when occupying the final position in a word, but note that their values are identical. The 'Characteristic Value' (CV) represented by a group of numerals is obtained as their sum.

“The numbers 500, 600, 700, 800, and 900 could also be represented by the final forms of the letters *kaph*, *mem*, *nun*, *pey* and *tsadey*. However, this notation, which is found, for example, in the Oxford manuscript 1822 quoted by Gershon Scholem, was adopted only in Cabbalistic calculations. So in ordinary use, these final forms of the letters simply had the numerical value of the corresponding non-final forms of the letters.”

[Quoted from p.217 of Georges Ifrah’s exhaustive work, ***From One to Zero: A Universal History of Numbers*** (ISBN 1 86046 324 X). This authoritative book was included in *The American Scientist’s* list of ‘100 or so Books that have shaped a Century of Science’.]



Alternative Readings of The Bible's First 7 Hebrew Words

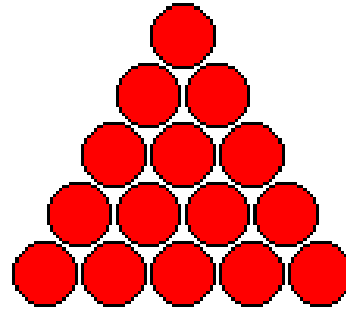


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
א	ב	ג	ד	ה	ו	ז	ח	ט	י	כ	ל	מ	נ	ס	ע	פ	צ	ק	ר	ש	ת
1	2	3	4	5	6	7	8	9	10	20	30	40	50	60	70	80	90	100	200	300	400



But what is a triangular number?

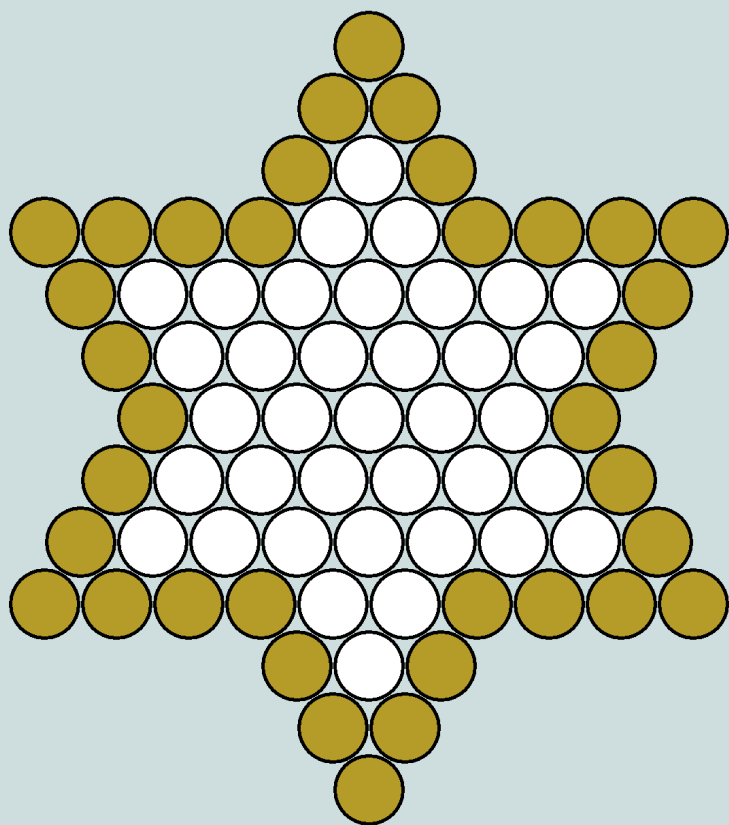
We have as a simple example the initial arrangement of the 15 'reds' in a game of snooker:



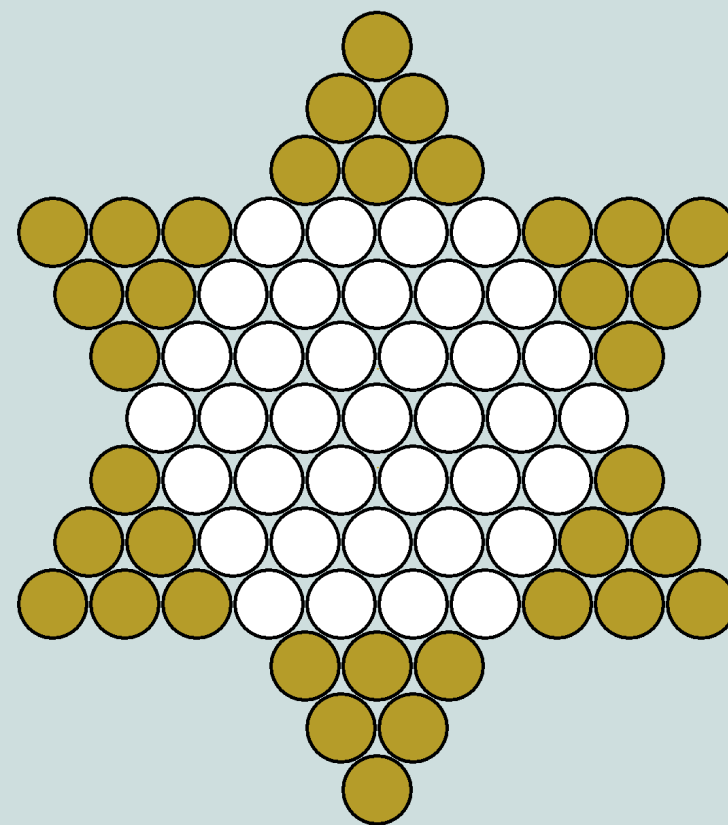
It is immediately apparent that there is a link between this simple instance of *numerical* geometry and the operation of counting for we find one red in row 1, two in row 2, three in row 3, four in row 4 and, finally, five in row 5. Clearly, this triangle can never fail to comprise precisely $1+2+3+4+5 = 15$ reds – and we therefore designate 15 as '5th triangular number', or $T(5)$. Such regular arrangements are a fundamental property of certain numbers which are said to be **FIGURATE**. We are thus introduced to the concept of **A COUNTABLE ABSOLUTE**. Such objects are impervious to manipulation and completely independent of place, time and of the things represented. Thus they provide a reliable means of judging a number's 'weight'.

A picture based upon these principles speaks powerfully of having been intelligently and intentionally designed.

37 AND 73 – THE COORDINATED FACTORS OF 2701

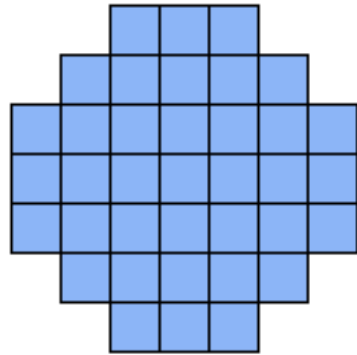


(a)

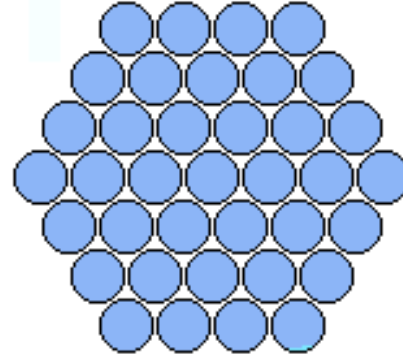


(b)

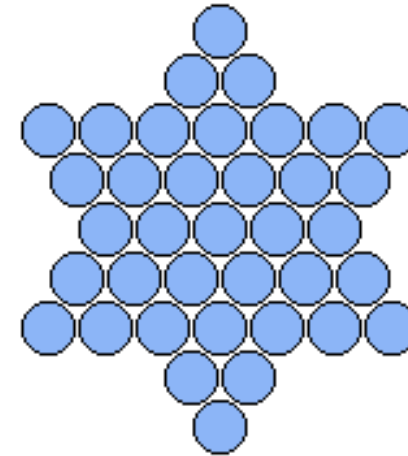
Observe that 37 is a one-of-a-kind figurate number in that it is prime and has three symmetrical numerical geometries:



37-as-octagon



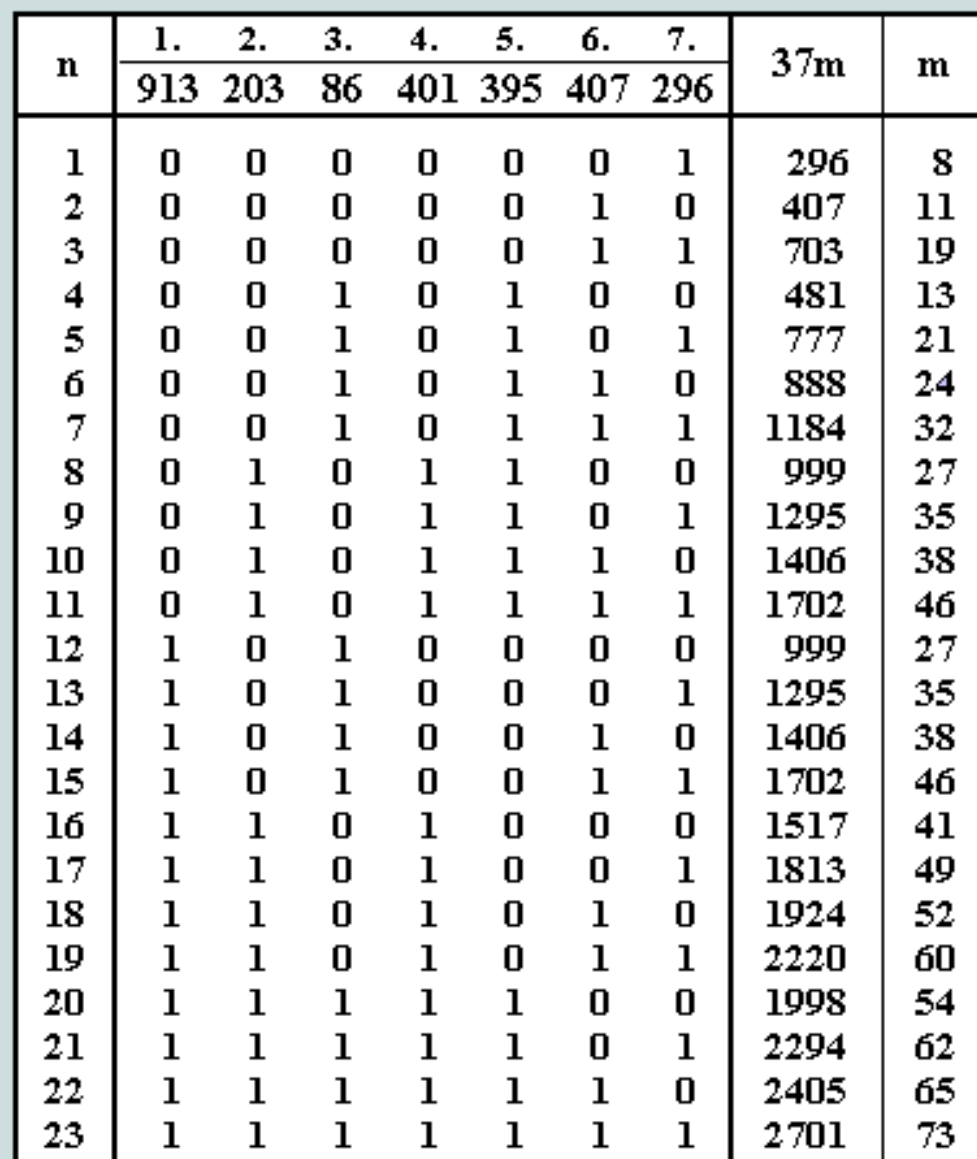
37-as-hexagon



37-as-hexagram

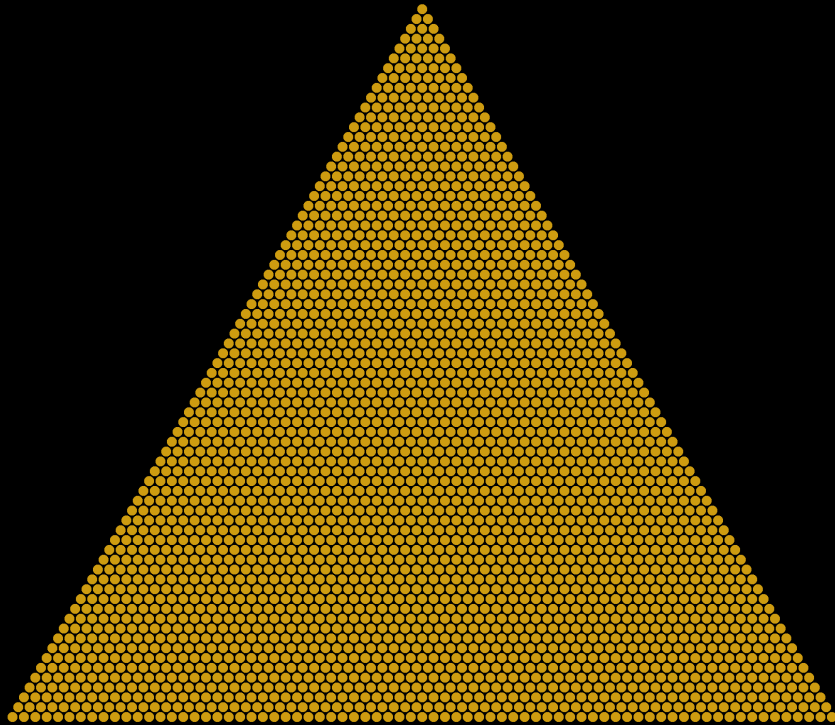
The following table reveals the composition of each of the 23 combinations of the Genesis 1:1 CVs which are multiples of 37, i.e. almost 7 times the expected number!

[Note: In describing the composition of each combination a '1' under any CV represents 'included', and a '0', 'excluded.']

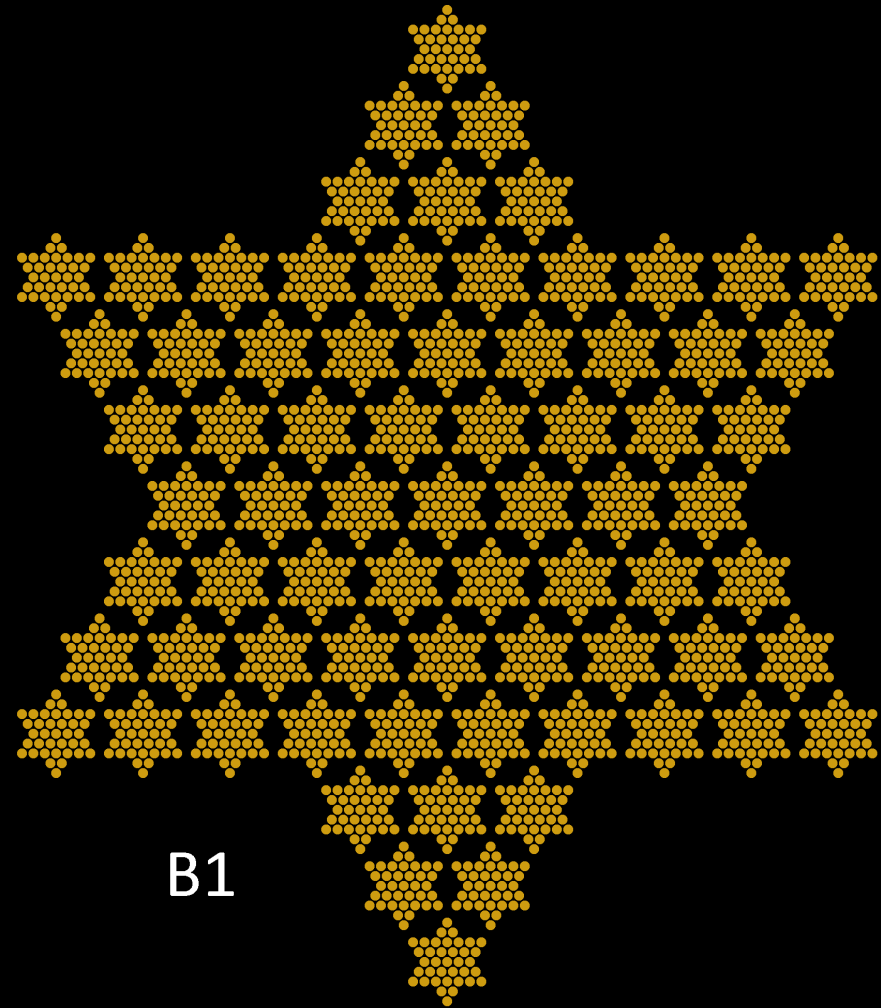




THE PRINCIPAL FEATURES OF A STANDING MIRACLE



A1



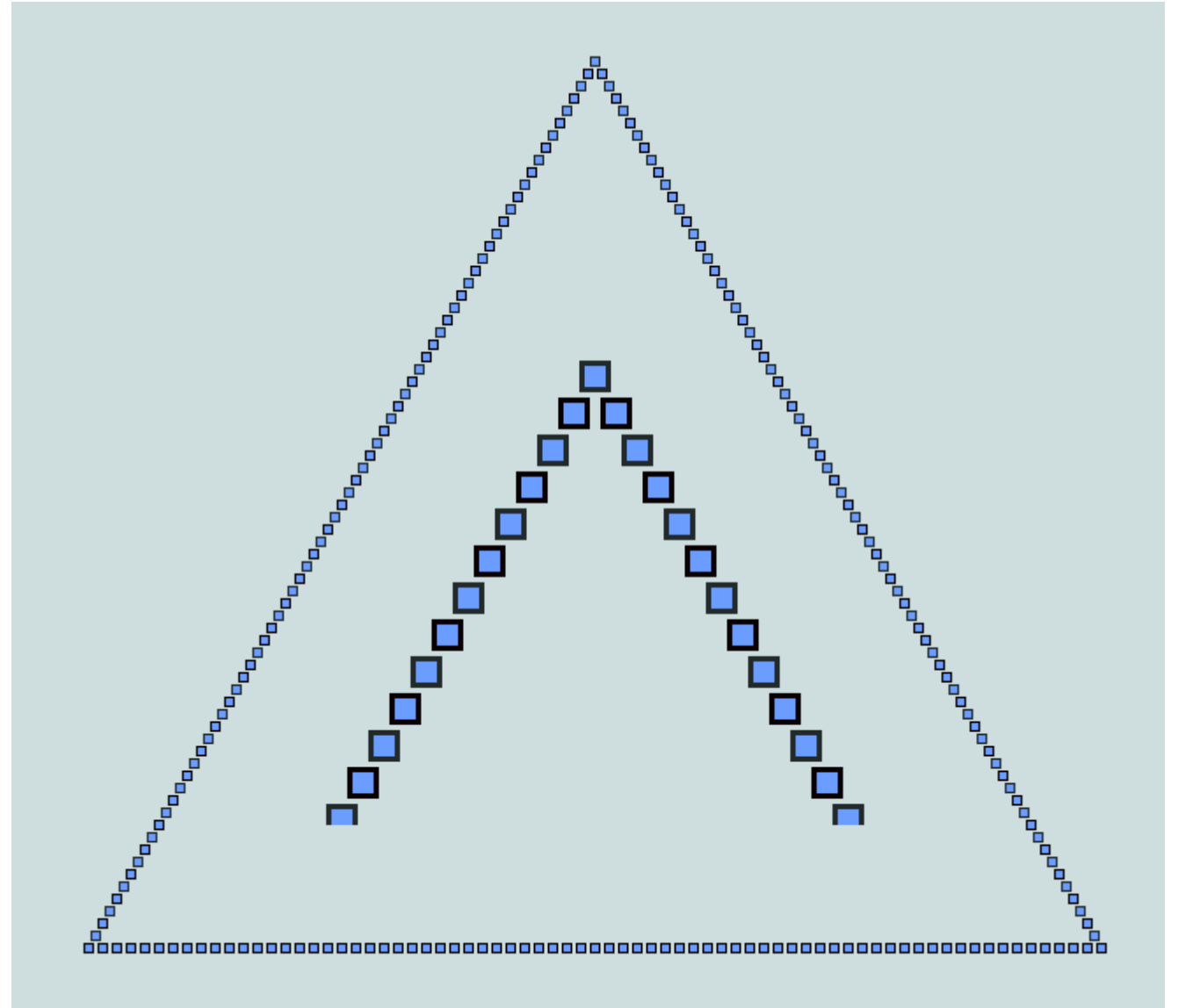
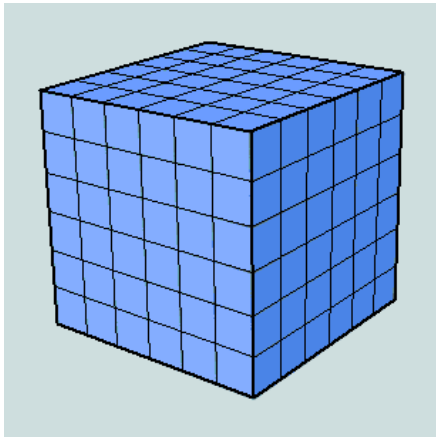
B1

Twenty-first century views of the Bible's opening Hebrew verse



THE CUBIC OUTLINE OF 2701-as-Triangle

If the 3x72 circular counters forming the outline of 2701-as-Triangle are replaced by unit cubes, these may later be stacked to form the 6x6x6 cube shown. Among the infinite sequence of cubes this example is unique in that its volume (= 216 unit cubes) is numerically equal to its superficial area (= $6 \times 36 = 216$ unit squares).






These symmetrical digital pictures are highly informative:

1. They provide irresistible evidence for the fact that our Creator has indeed used the associated numbers to confirm His fundamental opening assertion;
2. They highlight the special status of 2701: as the following table reveals, it is found to be the first of a sparse subset of the infinite set of natural numbers which are both triangle and star-of-stars;
3. It is unique within this subset – having reflective decimal factors, and cubic triangular outline;
4. We infer that 2701 has been Divinely chosen to effectively introduce and proclaim the Word of God! In modern parlance, HERE IS THE REAL BIG BANG!!

n	Larger Star [S1]	Smaller Star = Hexagon [S2= H]	2701 and analogues [S1.S2 = S1.H]
1	73	37	2701
2	2521	1261	3178981
3	85681	42841	3670659721
4	2910673	1455337	4236010111801
5	98877241	49438621	4888354443324661



The observation that 2701 may be represented by each of a pair of countable symmetrical pictures – TRIANGLE and STAR-OF-STARS – leads to a most significant conclusion, namely, that it is SINGULARLY PROMINENT in the infinite series of natural numbers, being the first (and unique) member of a sparse subset with just 6 representatives in the first quadrillion. Clearly, GENESIS 1:1 shares in this hall of fame – and Glorifies its Author!



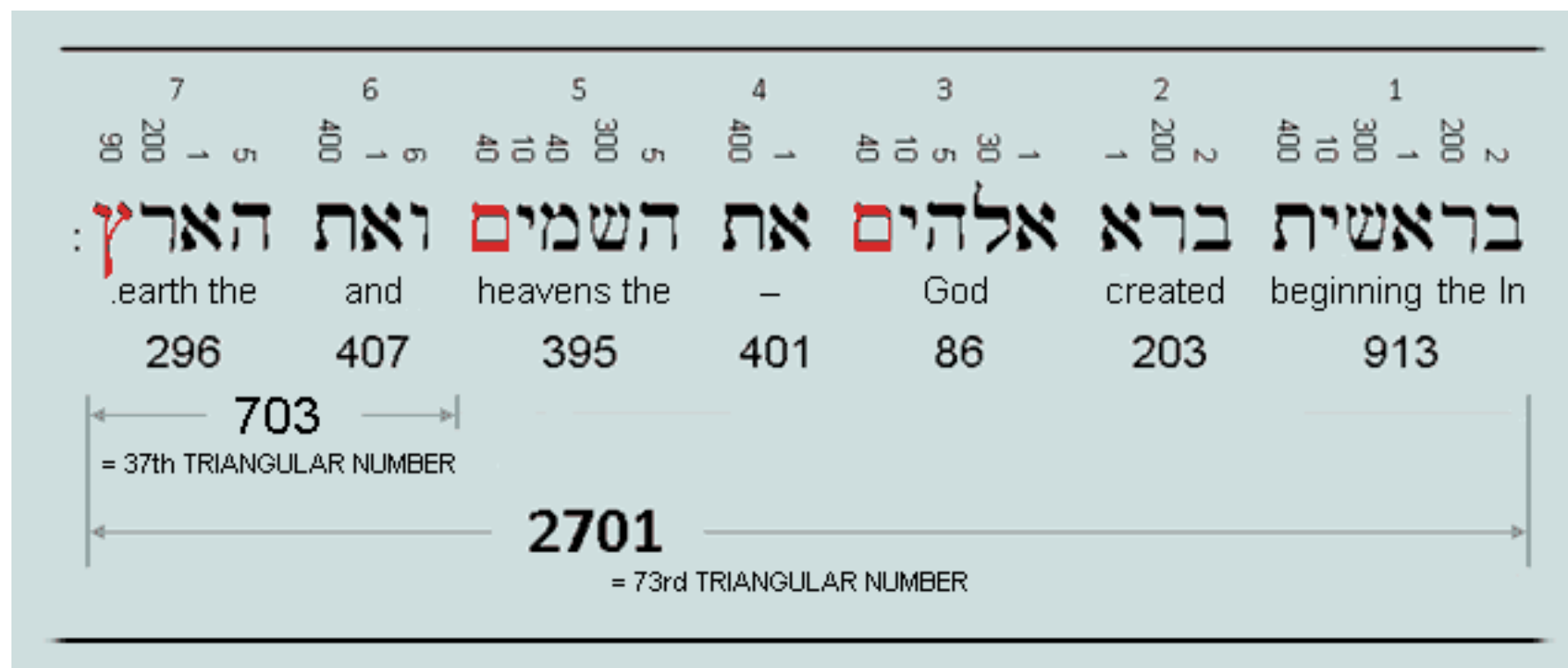
We now intend to broaden the scope of our quest by considering just 3 features* of the message delivered by the Bible's opening verse:

1. More Coordinated Digital Pictures
2. Accurate estimates of the two Primary Universal Constants π and e from the 'Creation' verses
3. Foretelling the Metric Dimensions of an abundant Modern Artefact - the A4 sheet of paper

*Some involving the numerical reading of the Greek of John 1:1 and of the Lord's Name and Title

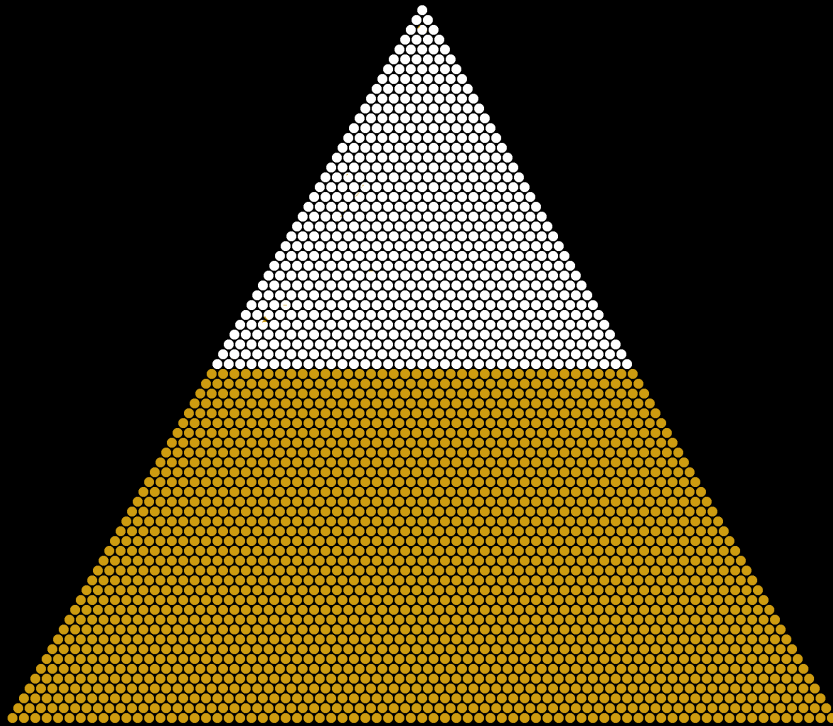


1. MORE COORDINATED DIGITAL PICTURES

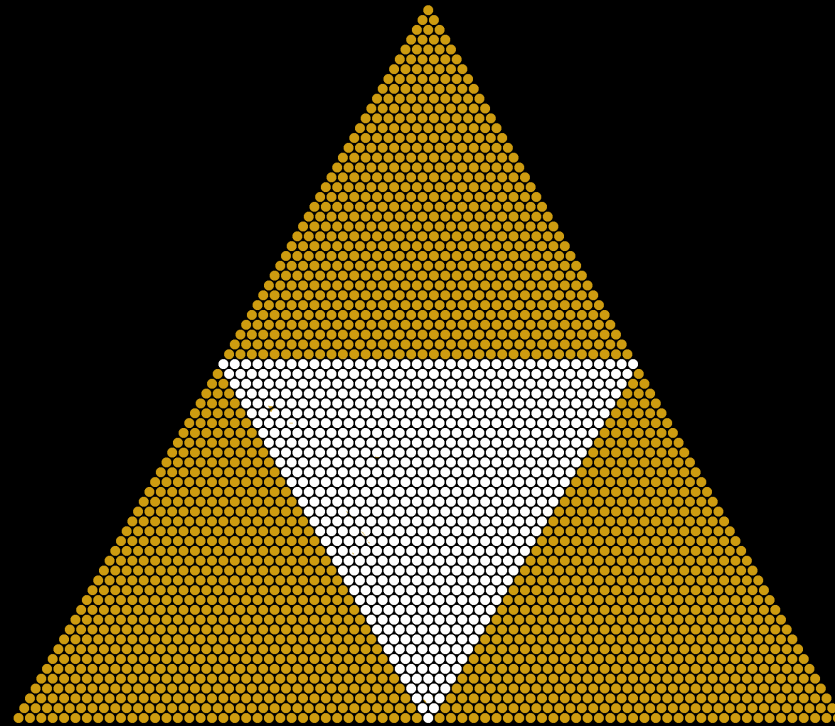




THE PRINCIPAL FEATURES OF A STANDING MIRACLE



A2



A3

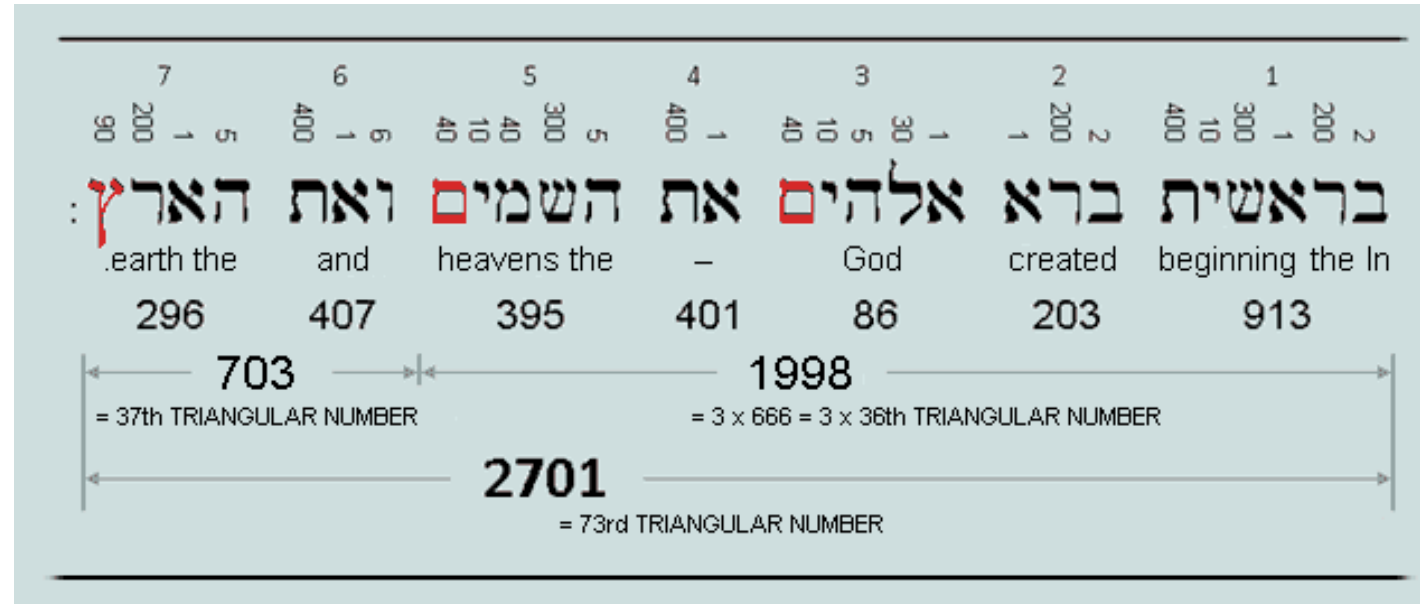
Twenty-first century views of the Bible's opening Hebrew verse



THE BIBLE'S FIRST VERSE: ITS TWO READINGS

Letter values

Word values

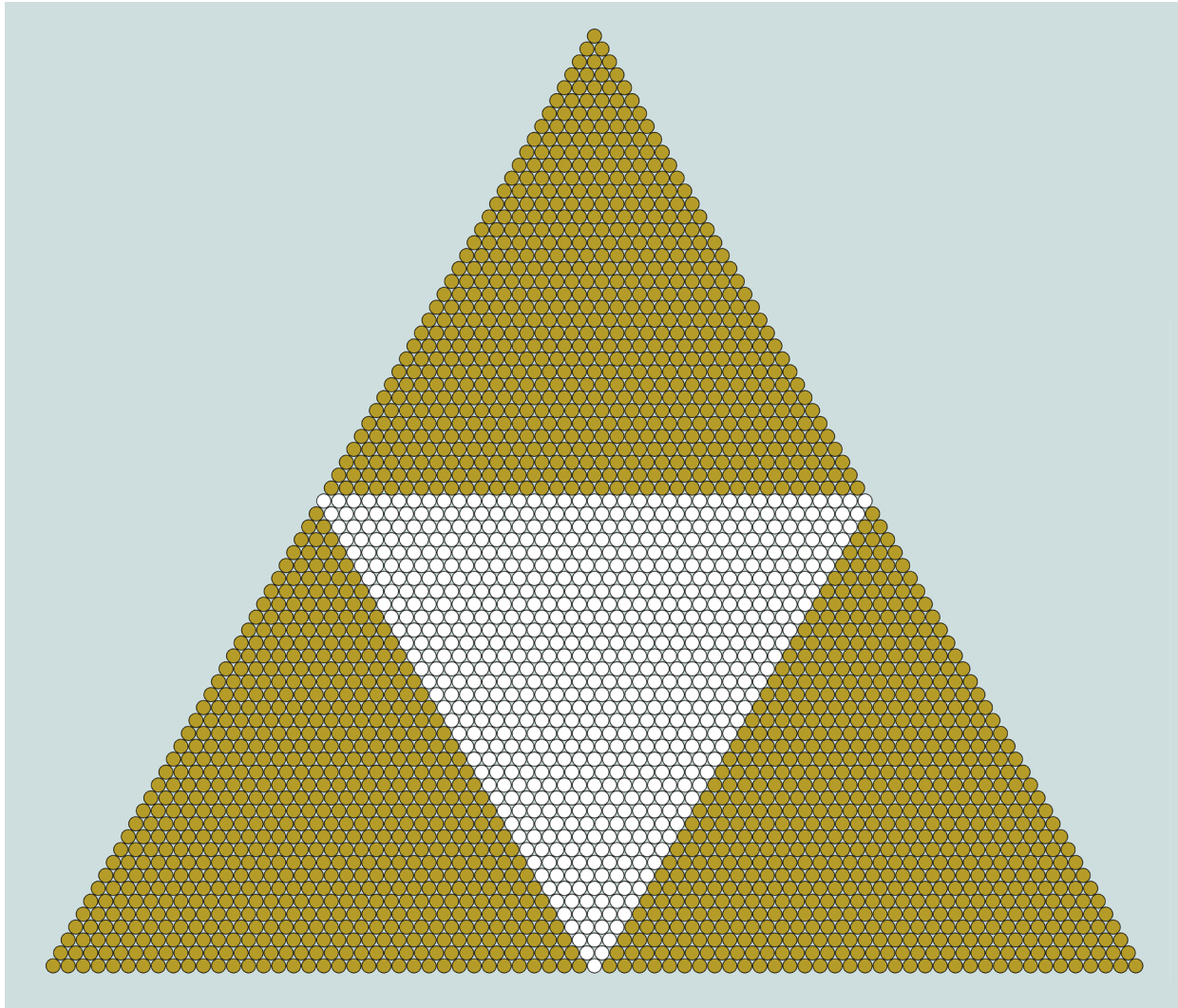


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
א	ב	ג	ד	ה	ו	ז	ח	ט	י	כ	ל	מ	נ	ס	ע	פ	צ	ק	ר	ש	ת
1	2	3	4	5	6	7	8	9	10	20	30	40	50	60	70	80	90	100	200	300	400

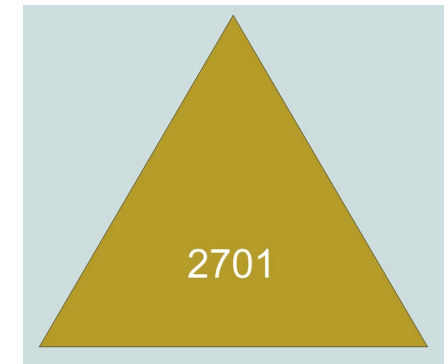
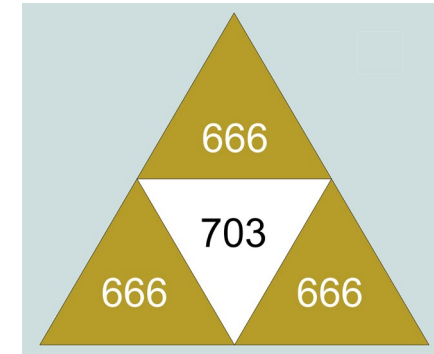
THE HEBREW SCHEME OF ALPHABETIC NUMERATION



THE COORDINATED TRIANGLES

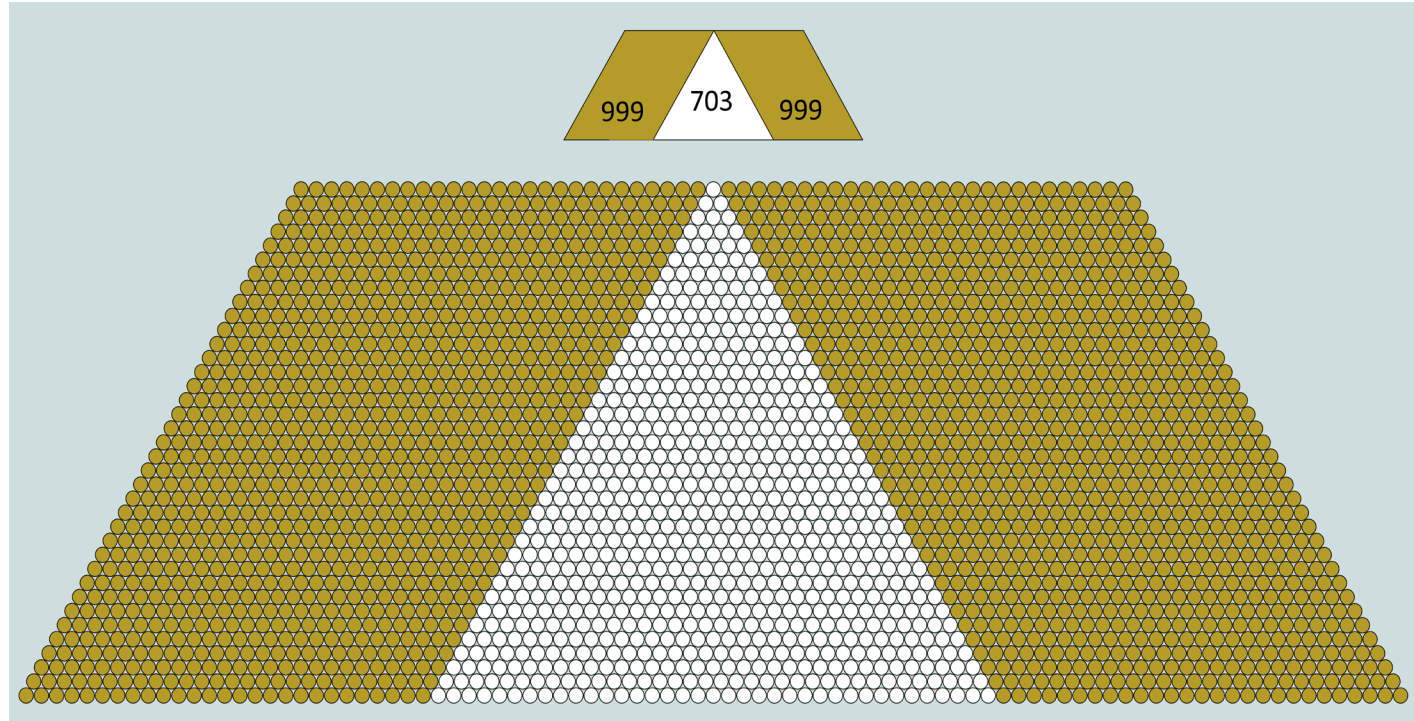


A DIGITAL PICTURE OF GENESIS 1:1





2701 – AS – TRAPEZIUM



An alternative geometrical representation of 2701 may be obtained by replacing the three triangles of 666 with two parallelograms of 999 – sums drawn from the first five words, thus

$$913+86 = 203+401+395 = 999$$

A THIRD PICTURE OF GENESIS 1:1



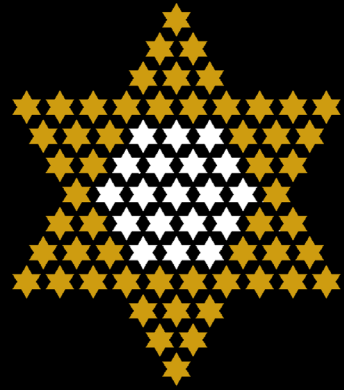
THE GREEK SCHEME

Place	1	2	3	4	5	6	7	8
Letter	<i>Aα</i>	<i>Bβ</i>	<i>Γγ</i>	<i>Δδ</i>	<i>Eε</i>	<i>Zζ</i>	<i>Hη</i>	<i>Θθ</i>
Name	Alpha	Beta	Gamma	Delta	Epsilon	Zeta	Eta	Theta
Numeral	1	2	3	4	5	7	8	9
Place	9	10	11	12	13	14	15	16
Letter	<i>Ιι</i>	<i>Κκ</i>	<i>Λλ</i>	<i>Μμ</i>	<i>Νν</i>	<i>Ξξ</i>	<i>Οο</i>	<i>Ππ</i>
Name	Iota	Kappa	Lambda	Mu	Nu	Xi	Omicron	Pi
Numeral	10	20	30	40	50	60	70	80
Place	17	18	19	20	21	22	23	24
Letter	<i>Ρρ</i>	<i>Σσς</i>	<i>Ττ</i>	<i>Υυ</i>	<i>Φφ</i>	<i>Χχ</i>	<i>Ψψ</i>	<i>Ωω</i>
Name	Rho	Sigma	Tau	Upsilon	Phi	Chi	Psi	Omega
Numeral	100	200	300	400	500	600	700	800

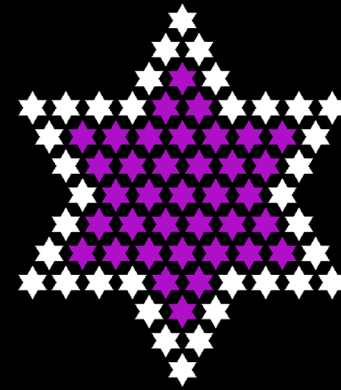
Observe that there is just one end-form, and that 6 and 90 are missing because the associated letters *digamma* and *koppa* became obsolete. As with the Hebrew, the number represented by a sequence of numerals is obtained by summation.



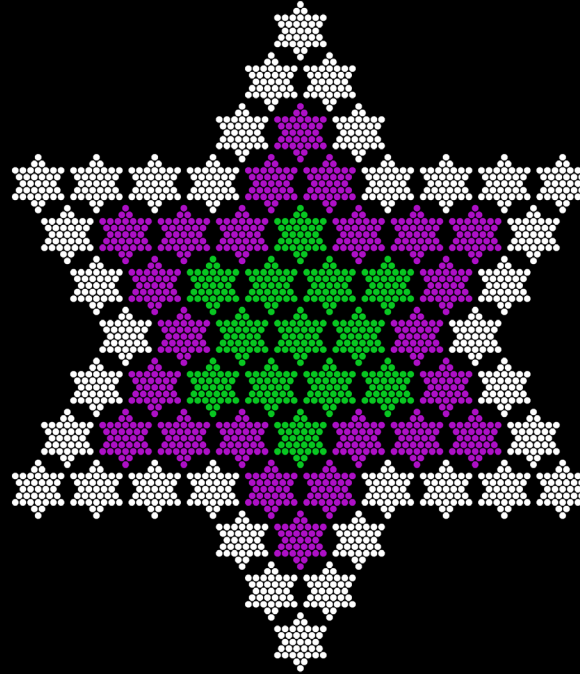
THE PRINCIPAL FEATURES OF A STANDING MIRACLE



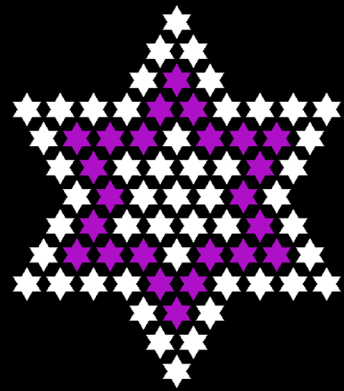
B2



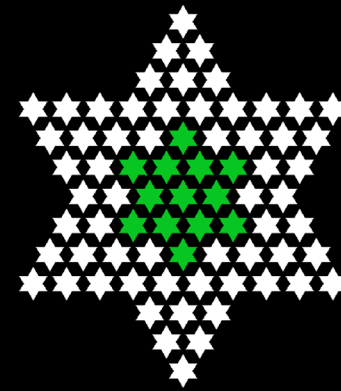
B3



B6



B4



B5

Twenty-first century views of the Bible's opening Hebrew verse

AN ALTERNATIVE SUBDIVISION OF GENESIS 1:1

7 200 90 5 1	6 400 1 6	5 300 40 10 40 5	4 400 1	3 40 10 5 30 1	2 200 1 2	1 400 10 300 1 200 2
הָאָרֶץ	וְאֵת	הַשָּׁמַיִם	אֵת	אֱלֹהִים	בָּרָא	בְּרֵאשִׁית
the earth	and	the heavens	—	God	created	In the beginning
296	407	395	401	86	203	913

Sum of odd-numbered CVs:

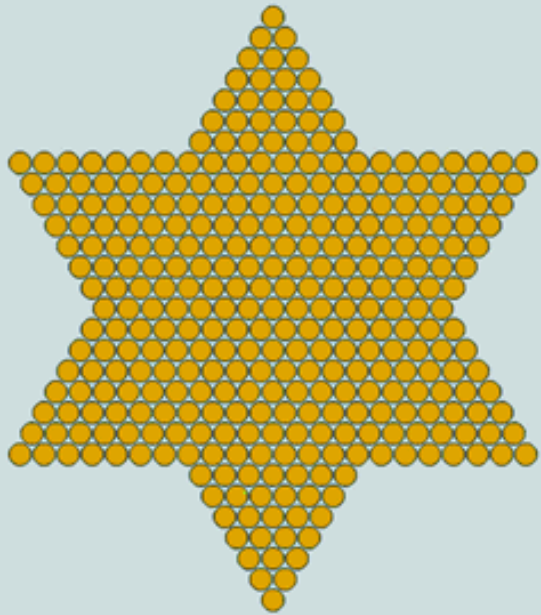
$$913 + 86 + 395 + 296 = 1690 = 10 \times 169$$

Sum of even-numbered CVs:

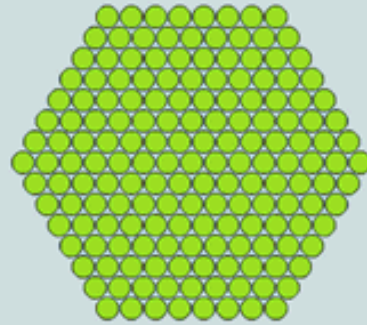
$$203 + 401 + 407 = 1011 = 3 \times 337$$



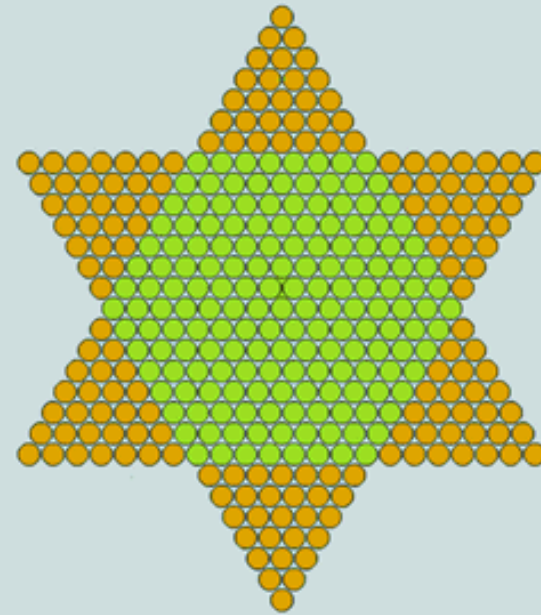
THE ASSOCIATED FIGURATE NUMBERS



$$S(8) = 337$$



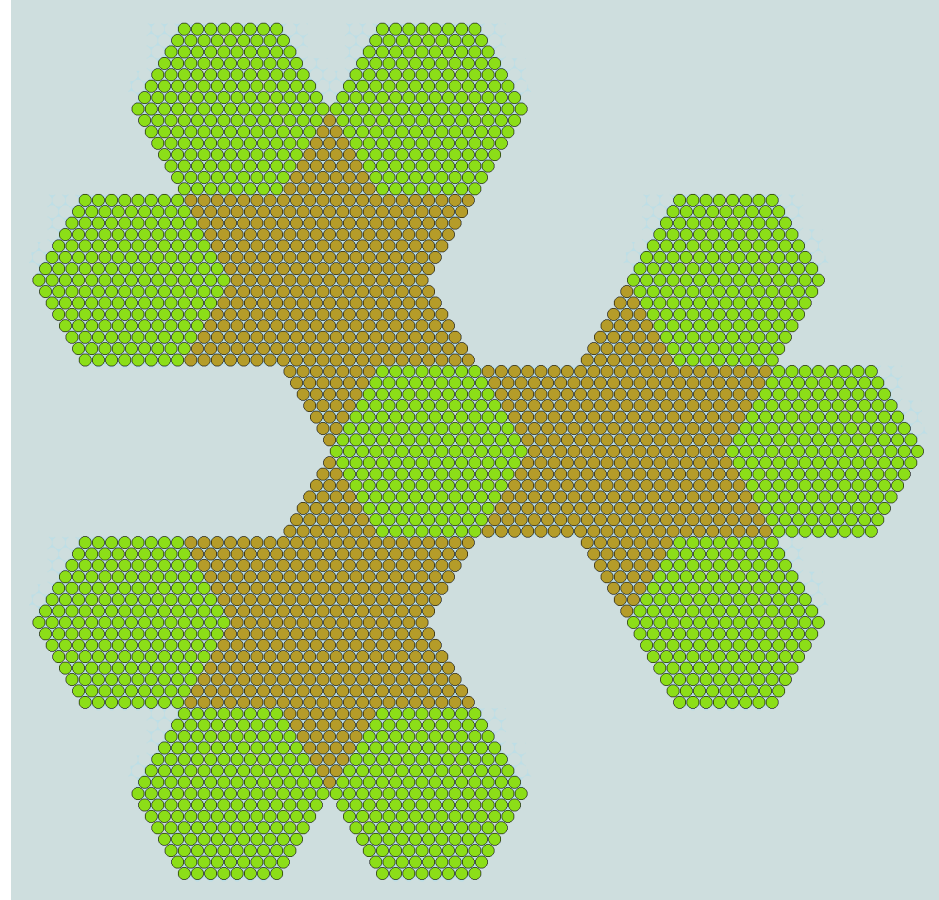
$$H(8) = 169$$



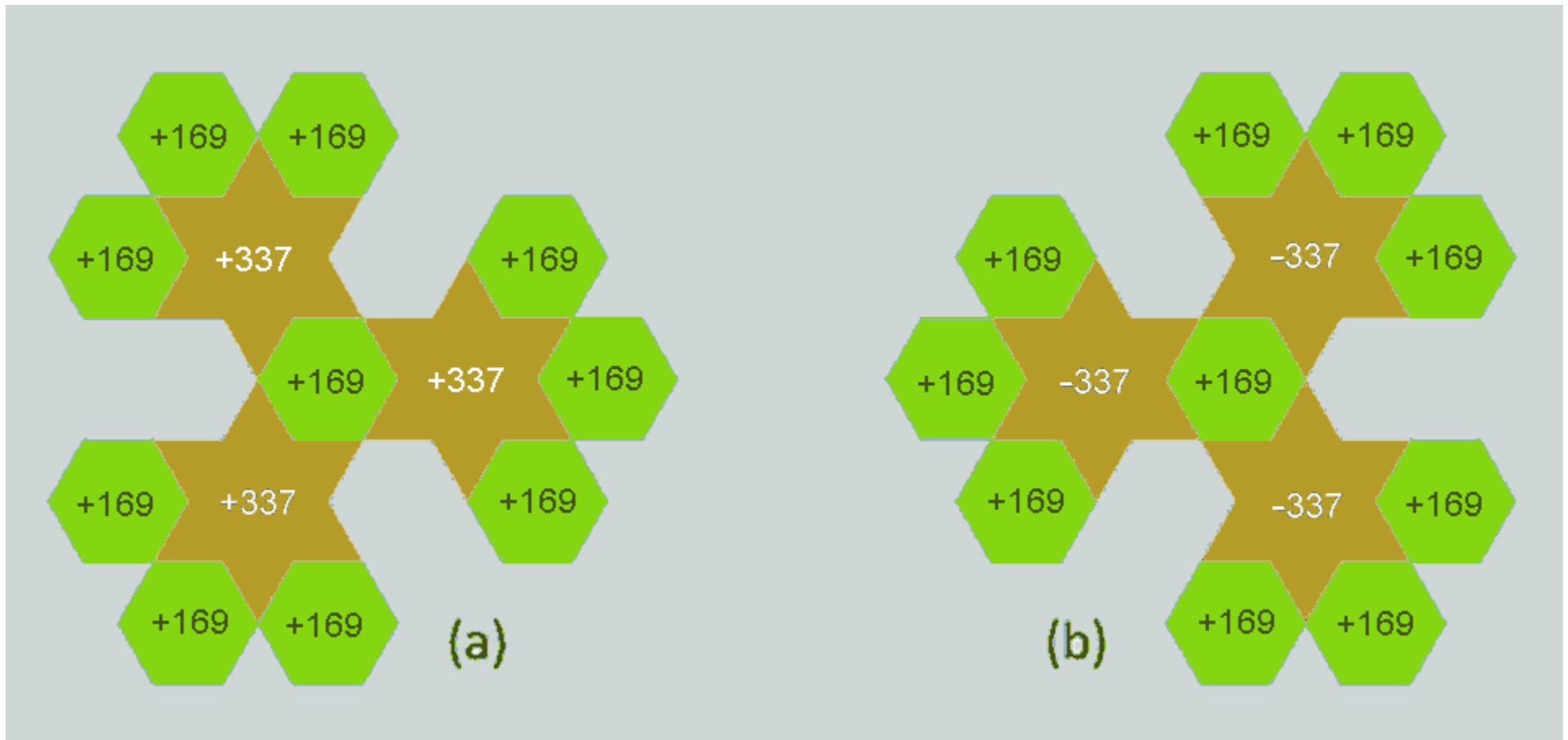
$$169 / 337$$



THE GENESIS 1:1 TREFOIL



A FOURTH DIGITAL PICTURE OF GENESIS 1:1

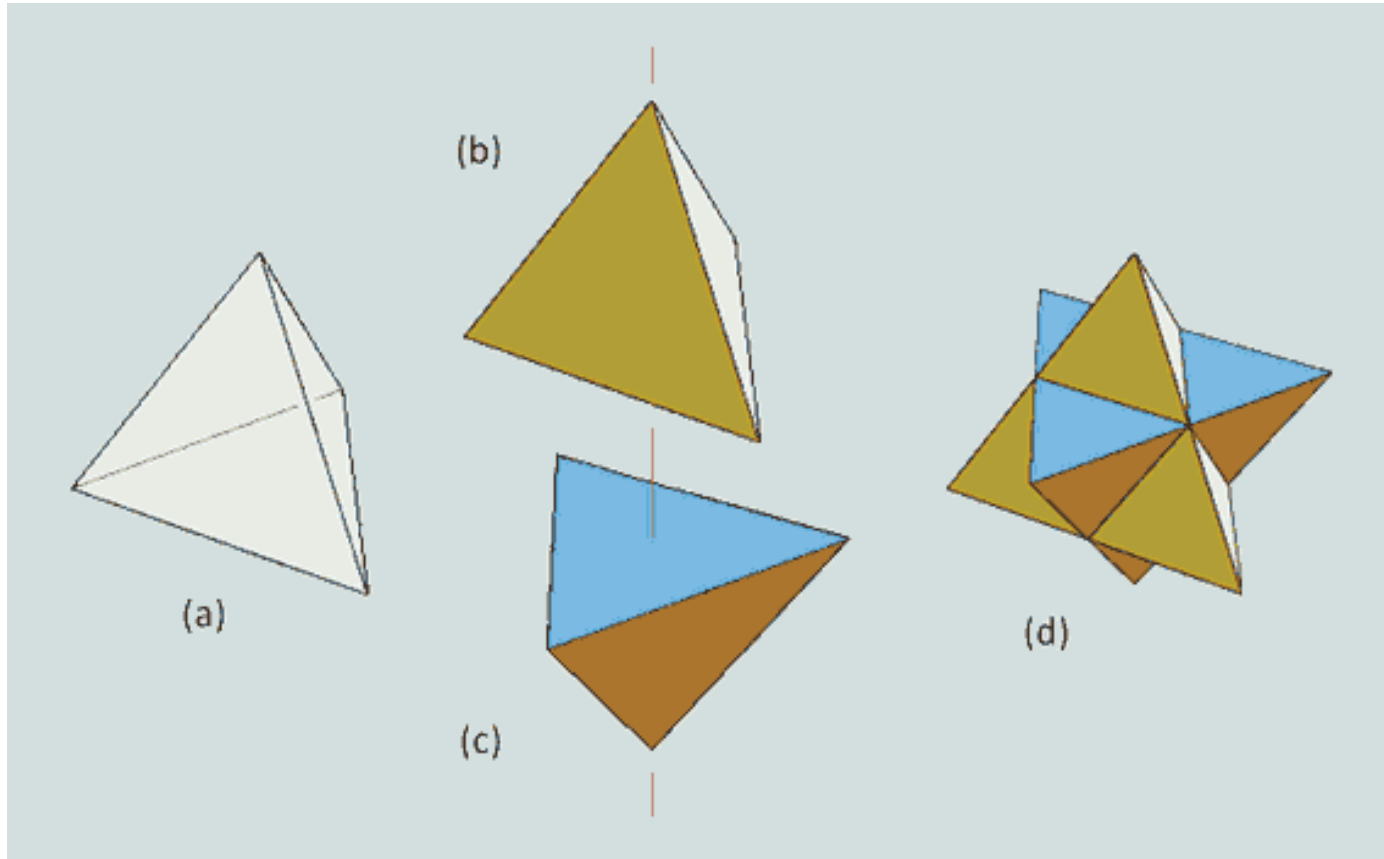


$$\begin{aligned}\Sigma(a) &= 10.169 + 3.337 = 2701 \\ &= T(73)\end{aligned}$$

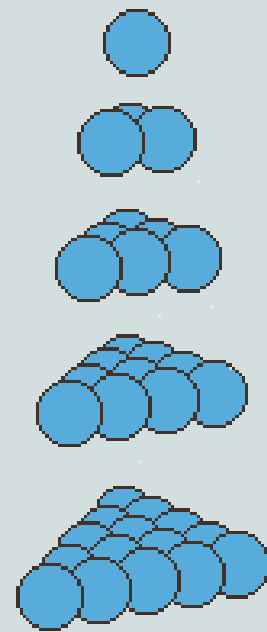
$$\begin{aligned}\Sigma(b) &= 10.169 - 3.337 = 679 \\ &= SO(7)\end{aligned}$$



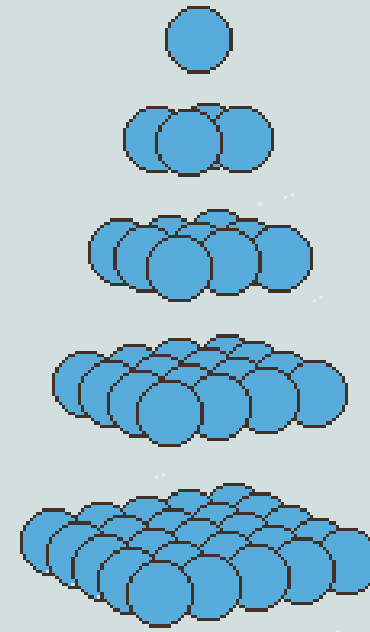
THE STELLA OCTANGULA



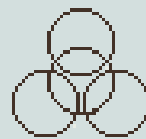
STELLA OCTANGULA // $SO(n) = n \cdot (2 \cdot n^2 - 1)$ // 1,14,51,124,245,426,679,1016 ...



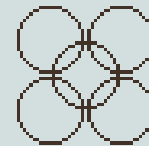
(a)



(b)



Packing arrangements
(as viewed from above)





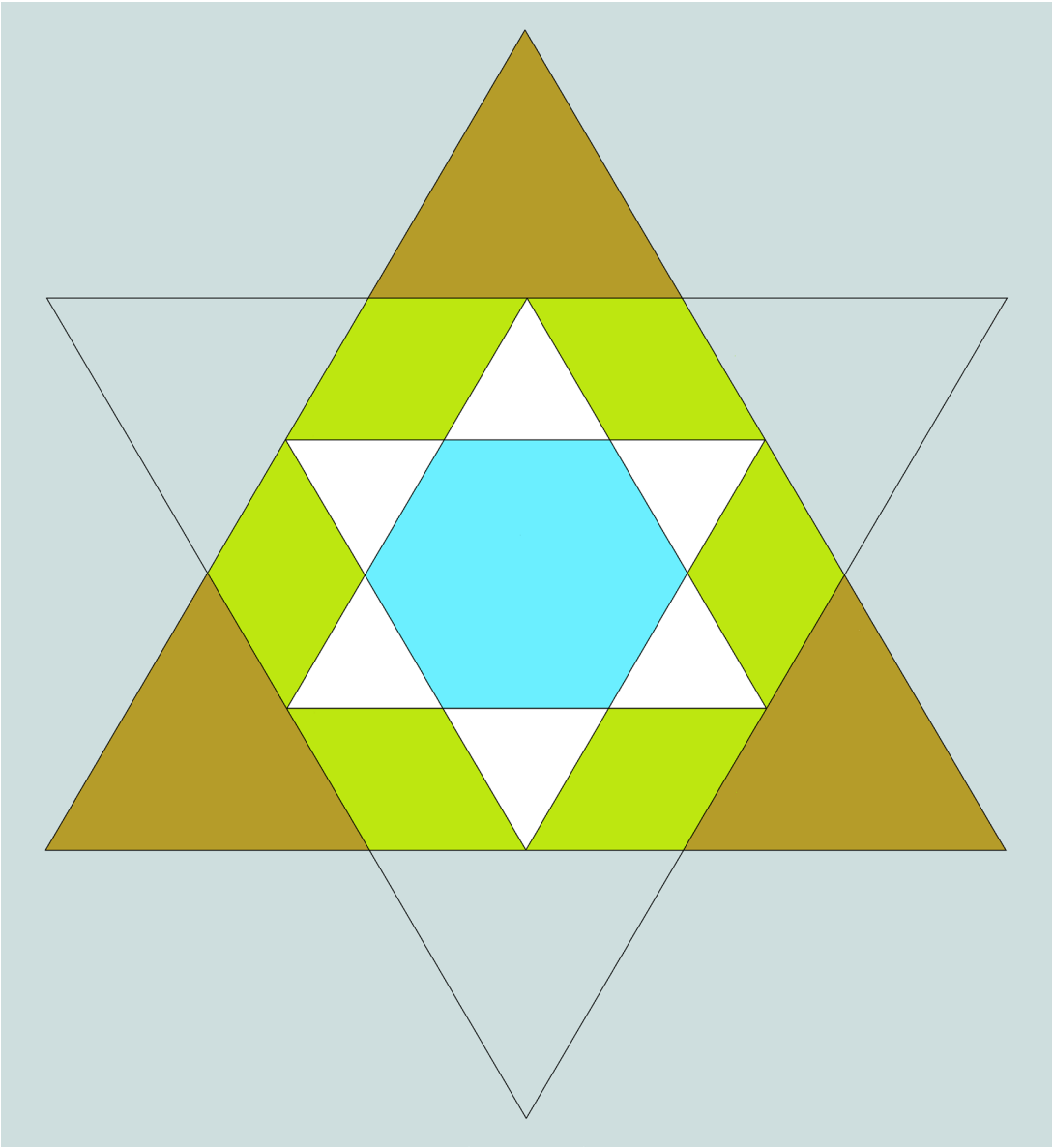
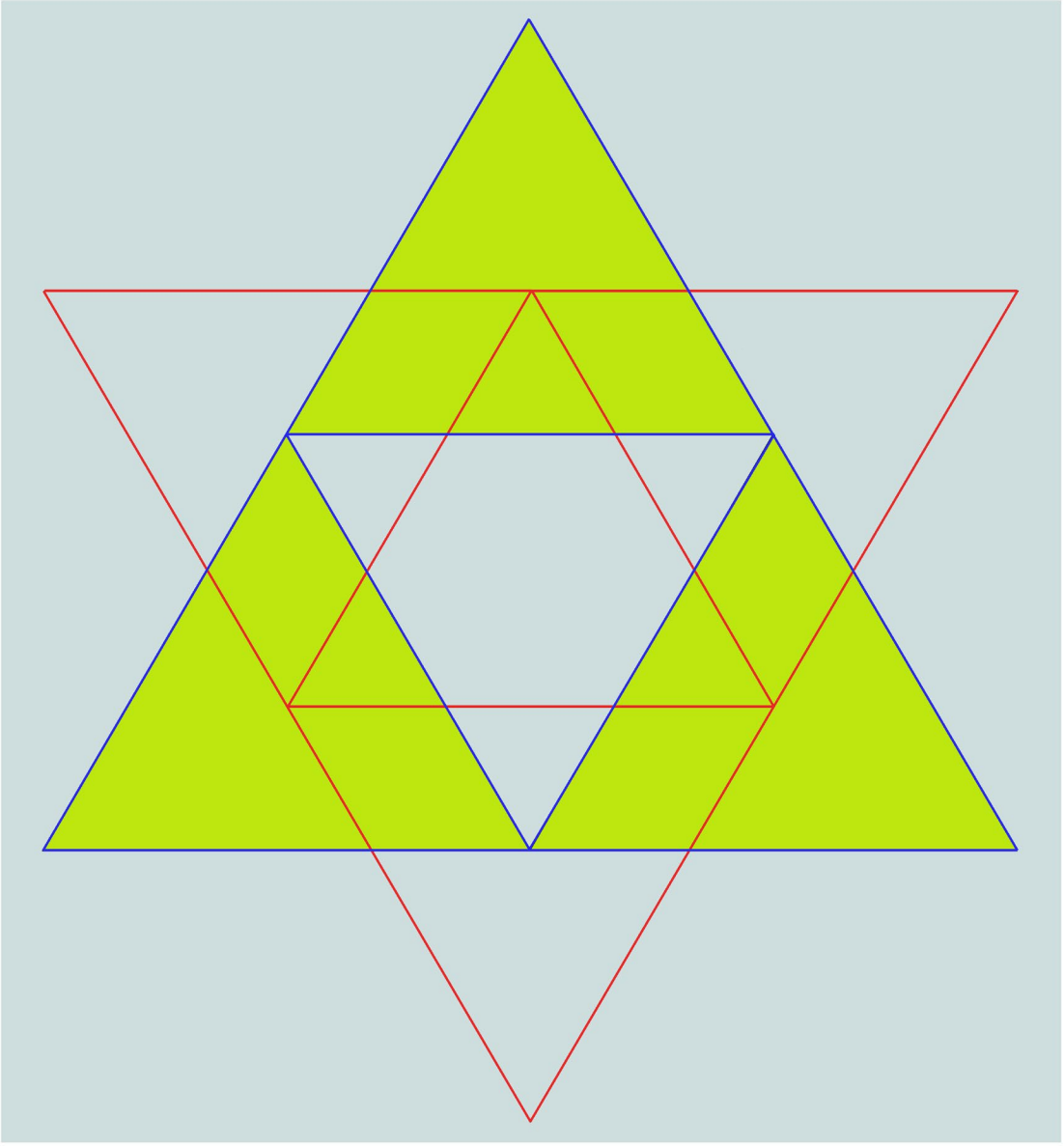
We thus further discover that the remarkable geometries of the numbers 2701 and 679 are bound together in the numerical reading of Genesis 1:1 ! The attributes of this standing miracle continue to accumulate – and within just seven numbers!

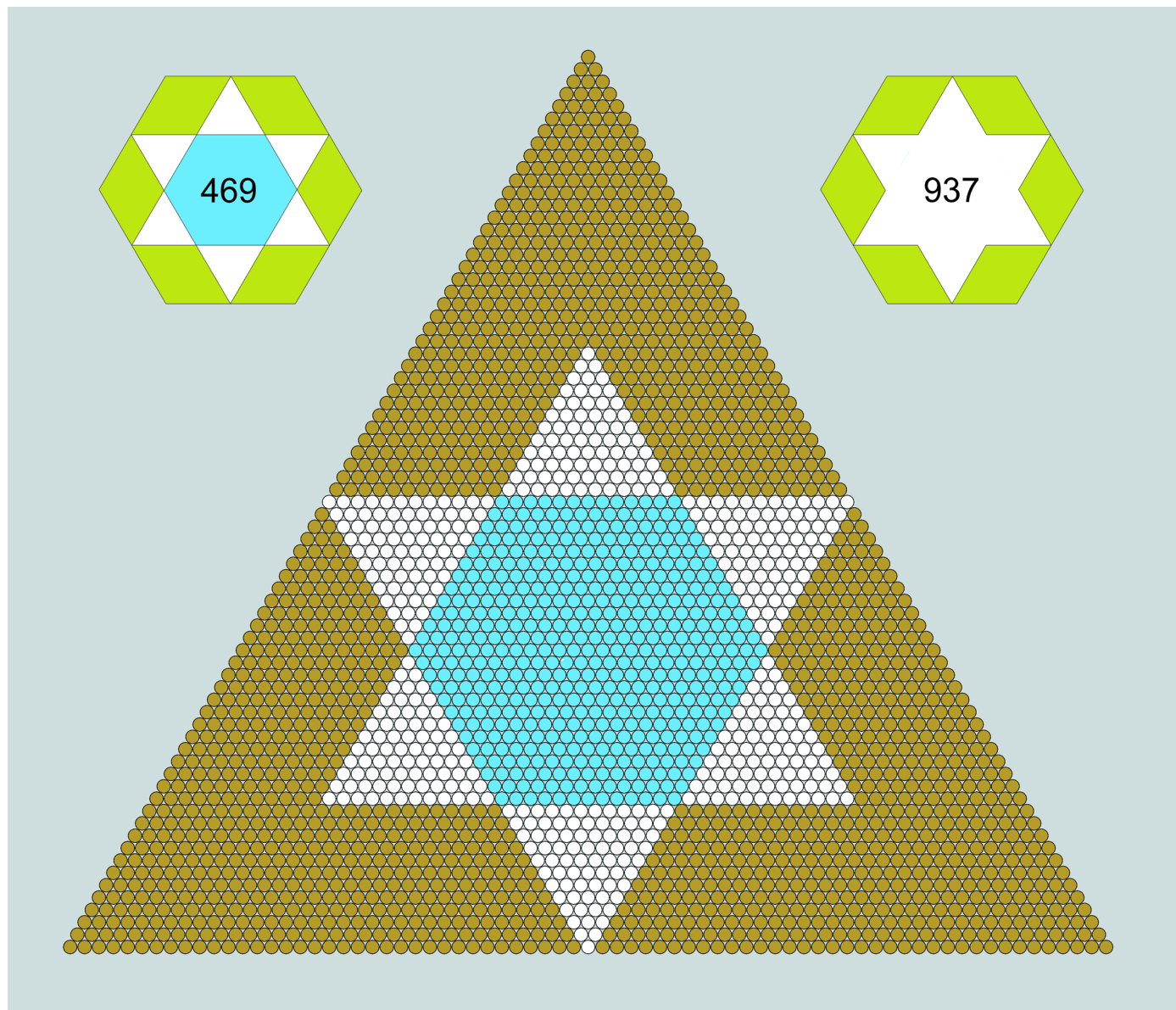
A SECOND ALTERNATIVE SUBDIVISION OF GENESIS 1:1

C = 703		B = 882			A = 1116	
7 200 90	6 400 5	5 300 40	4 400 10	3 40 5	2 200 1	1 400 300 200 2
וְאֶת	הָאָרֶץ:	אֱלֹהִים	אֶת	הַשָּׁמַיִם	בְּרֵאשִׁית	בָּרָא
and	the earth	God	—	the heavens	beginning the In	created
407	296	401	395	86	203	913

From these three segments, the following integrated structures arise:

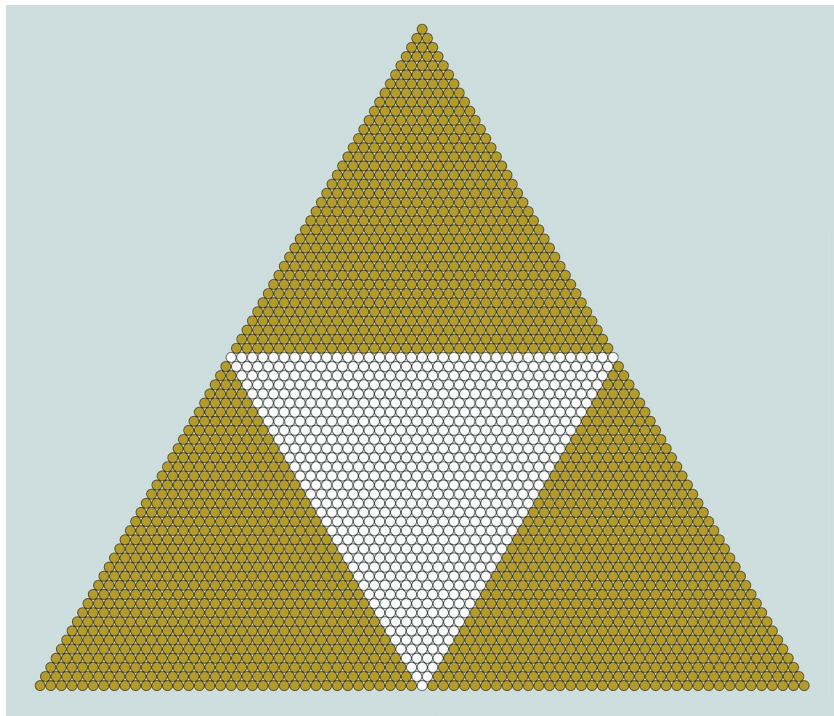
1. $(A + B) + C = 2701$ = the G-TRIANGLE
2. $(A + C) - B = 937$; this is depicted below as the union of the inner (37th) triangle with a centred inverted copy of itself, thus creating the 13th term of the hexagram (or 'star') series in which the 12th triangle figures as a constructional element
3. $(B + C) - A = 469$; this appears as the blue hexagonal core of the hexagram



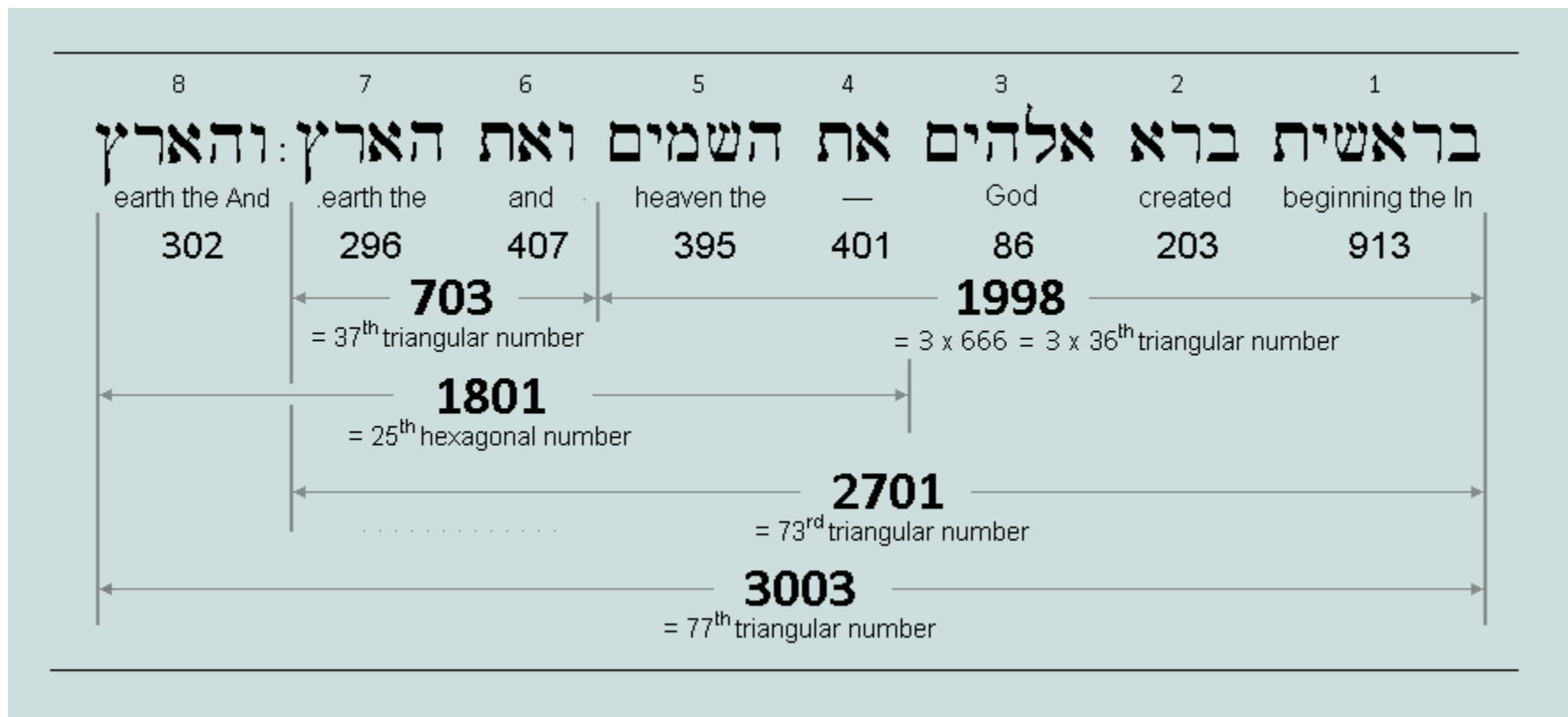


CREATION'S STAR

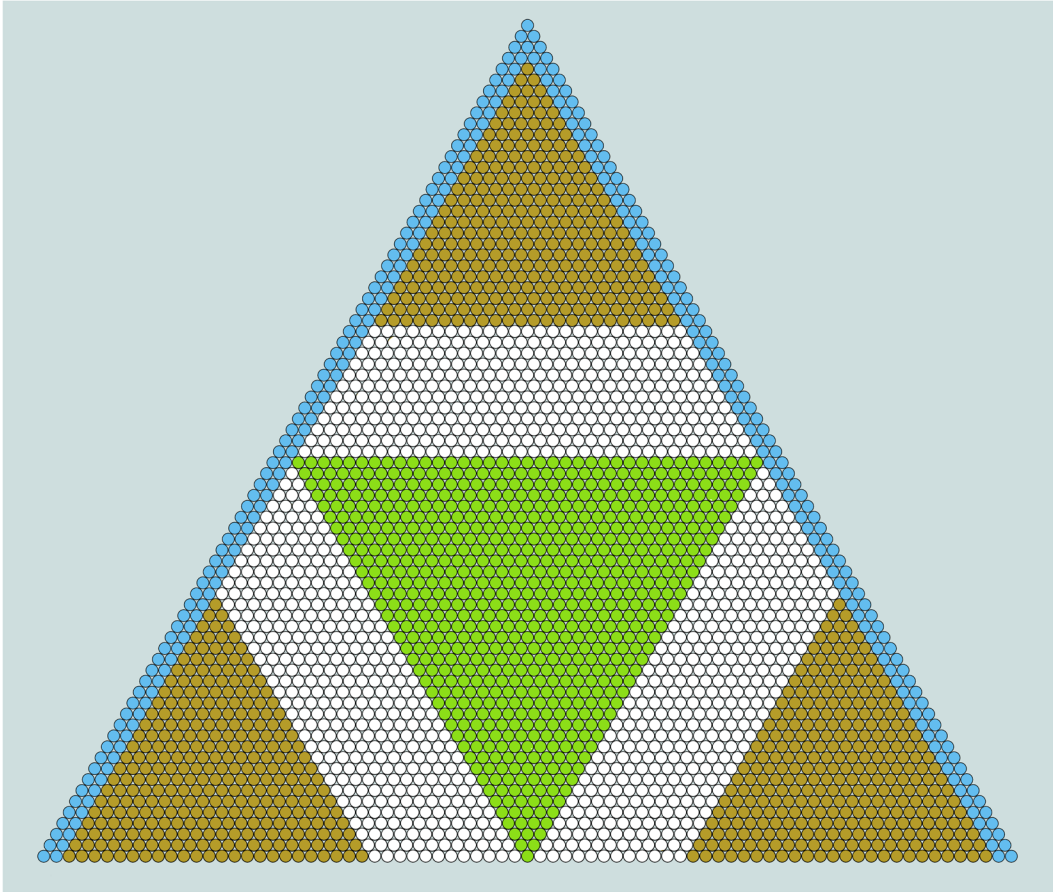
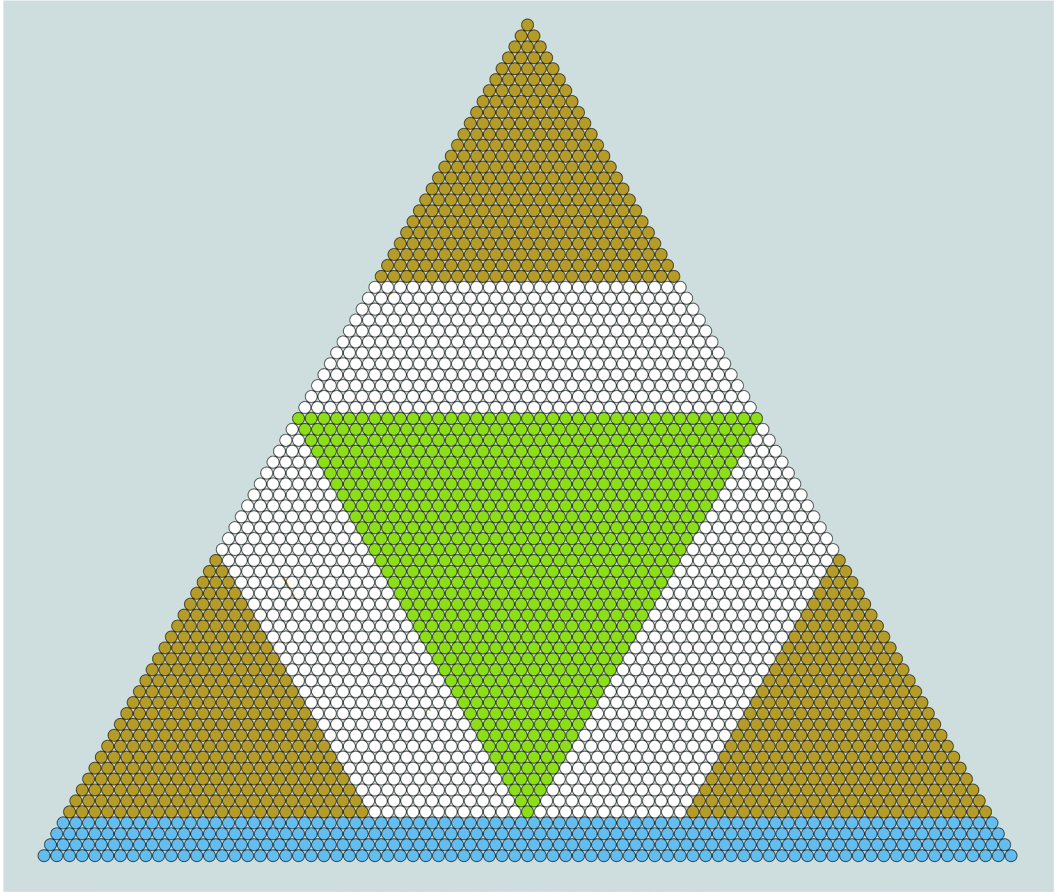
COMPLETING THE FIRST PICTURE:



It transpires that the first word of the second verse (i.e. Genesis 1:2) also has a part to play in these proceedings.
The augmented set is here referred to as G^+ .



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
א	ב	ג	ד	ה	ו	ז	ח	ט	י	כ	ל	מ	נ	ס	ע	פ	צ	ק	ר	ש	ת
1	2	3	4	5	6	7	8	9	10	20	30	40	50	60	70	80	90	100	200	300	400





THE TWO READINGS OF JOHN 1:1

1	2	3	4	5	6	7	8	9
5 50	8+10 600 100	8 50	70	30 70 200	20 1 10	70	30 70 200	8 50
Εν	αρχῇ	ἦν	ο	λογος,	και	ο	λογος	ἦν
In (the) beginning		was	the	Word,	and	the	Word	was
55	719	58	70	373	31	70	373	58

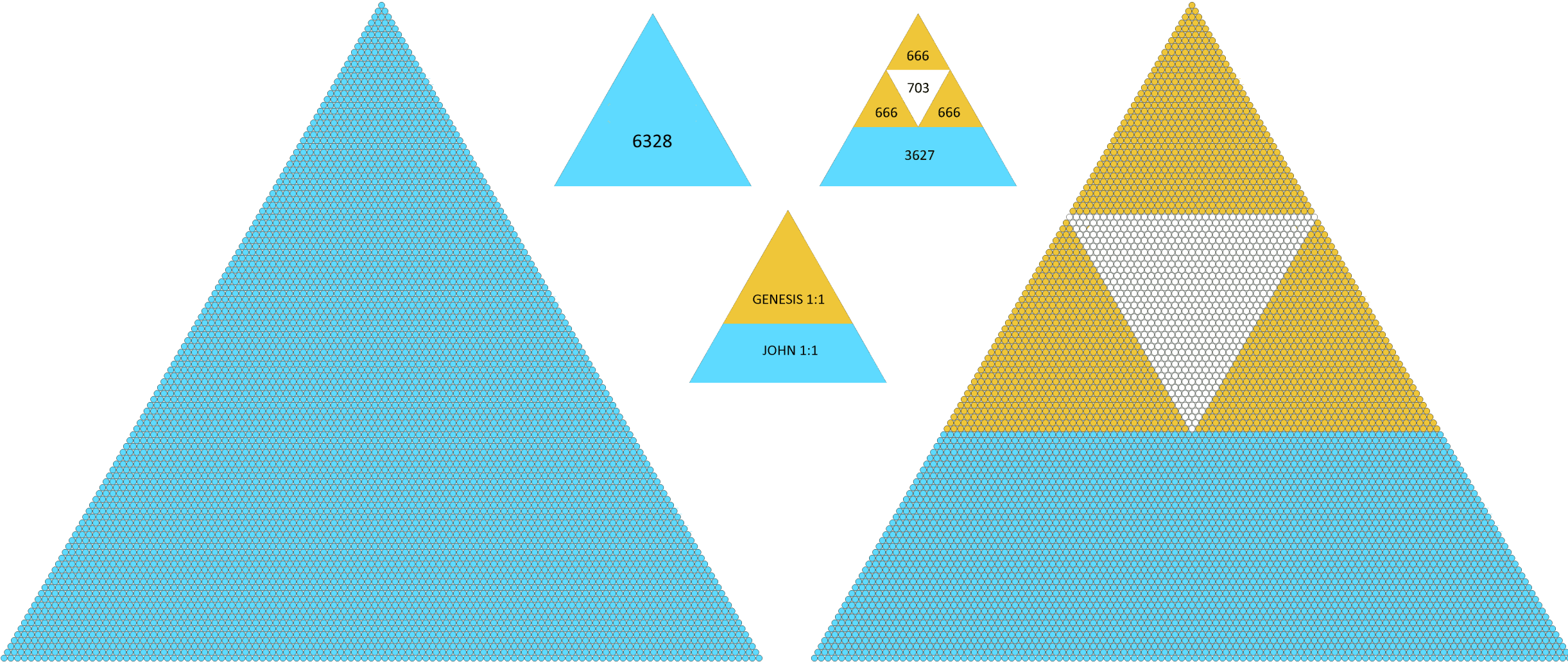
10	11	12	13	14	15	16	17
80 100 200	300 70 50	9 5 70 50	20 1 10	9 5 70 200	8 50	70	30 70 200
προς	τον	θεον,	και	θεος	ἦν	ο	λογος.
with	-	God,	and	God	was	the	Word.
450	420	134	31	284	58	70	373

$$\Sigma = 3627 = 39 \times 93$$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<i>Αα</i>	<i>Ββ</i>	<i>Γγ</i>	<i>Δδ</i>	<i>Εε</i>	<i>Ζζ</i>	<i>Ηη</i>	<i>Θθ</i>	<i>Ιι</i>	<i>Κκ</i>	<i>Λλ</i>	<i>Μμ</i>	<i>Νν</i>	<i>Ξξ</i>	<i>Οο</i>	<i>Ππ</i>	<i>Ρρ</i>	<i>Σσς</i>	<i>Ττ</i>	<i>Υυ</i>	<i>Φφ</i>	<i>Χχ</i>	<i>Ψψ</i>	<i>Ωω</i>
1	2	3	4	5	7	8	9	10	20	30	40	50	60	70	80	100	200	300	400	500	600	700	800

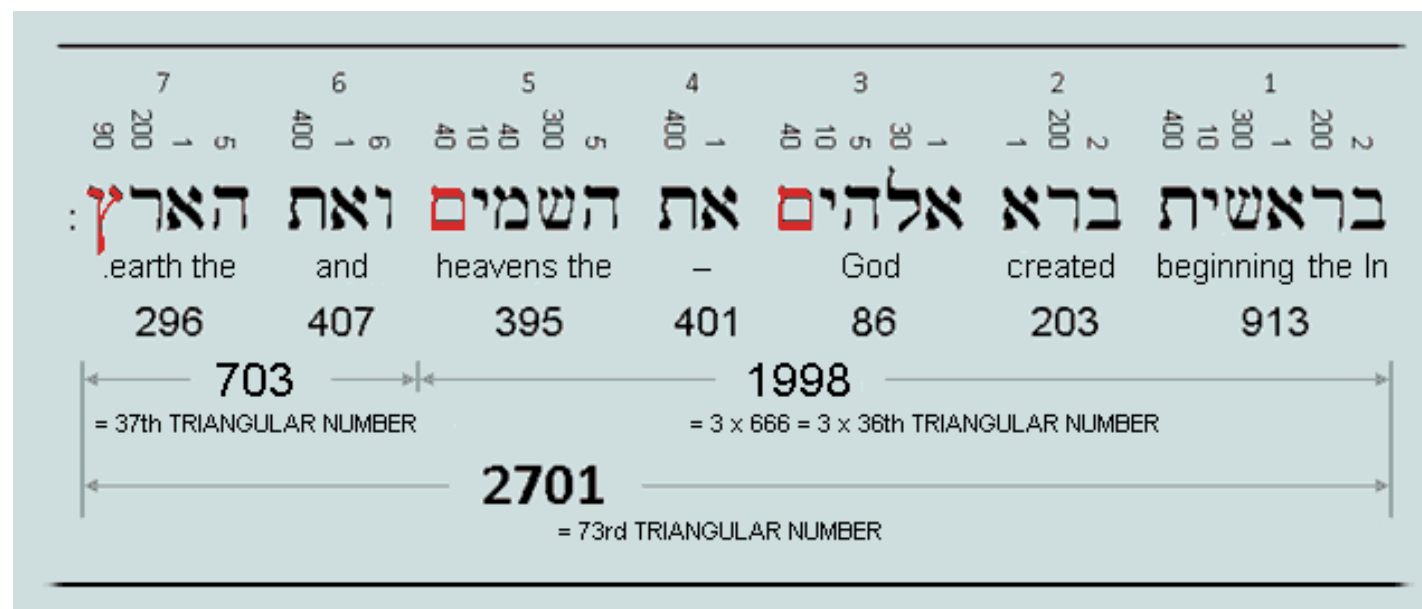


THE DERIVATION OF THE GREATER CREATION TRIANGLE





2. THE PRIMARY UNIVERSAL CONSTANTS, π and e , from the Bible's 'Creation' verses



Product of letters x Number of letters
Product of words x Number of words

$$= \frac{2.3887872 \times 10^{34} \times 28}{3.0415352... \times 10^{17} \times 7}$$

$$= 3.141554509... \times 10^{17}$$

Observe that 3.141554509... underestimates
 π (= 3.141592654...) by a mere 0.0012%



1	2	3	4	5	6	7	8	9
⁵ <i>Εν</i>	⁵⁰ <i>αρχῇ</i>	¹ <i>ἦν</i>	⁸⁺¹⁰ <i>ο</i>	²⁰⁰ <i>λογος,</i>	²⁰ <i>και</i>	¹⁰ <i>ο</i>	³⁰ <i>λογος</i>	²⁰⁰ <i>ἦν</i>
In (the) beginning	was	the	Word,	and	the	Word	was	
55	719	58	70	373	31	70	373	58
10	11	12	13	14	15	16	17	
⁸⁰ <i>προς</i>	¹⁰⁰ <i>τον</i>	²⁰⁰ <i>θεον,</i>	³⁰⁰ <i>και</i>	⁷⁰ <i>θεος</i>	²⁰⁰ <i>ἦν</i>	⁵⁰ <i>ο</i>	³⁰ <i>λογος.</i>	²⁰⁰ <i></i>
with	-	God,	and	God	was	the	Word.	
450	420	134	31	284	58	70	373	



$$\frac{\text{Product of Letters} \times \text{Number of Letters}}{\text{Product of Words} \times \text{Number of Words}}$$

$$= \frac{8.436251456... \times 10^{75} \times 52}{9.493022414... \times 10^{35} \times 17}$$

$$= \frac{4.386850757... \times 10^{77}}{1.61381381... \times 10^{37}}$$

$$= 2.718312812 ... \times 10^{40}$$

Observe that 2.718312812 ... overestimates e
(= 2.718281828 ...) by a mere 0.0011%

Details of these calculation may be found in Appendices 4
and 5 of the author's book *The Second Edge*.



A REVIEW OF THE π AND e EVALUATIONS

Let us first observe that any estimate of π or e that is obtained as the ratio of two integers must, necessarily, be an approximation. It is therefore interesting, and undoubtedly significant, that the percentage errors involved in the foregoing derivations, viz. -0.0012 and +0.0011, respectively, are small, of the same order of magnitude, and of opposite polarity.

It is appropriate that we derive a handle on the kind of odds against these results being chance happenings bearing in mind the fundamental nature and close relationship of the sources involved. Here, again, are the first 10 digits of 'the ratio 'estimate: true value' for π and e respectively, with matching significant digits underlined:

3.141554509 : 3.141592654, 2.718312812 : 2.718281828

Clearly, if these figures are rounded, π and e are each seen to be correct to 5 significant figures. Based upon a random distribution of the variables (a not unreasonable assumption in the circumstances), a simple estimate of the combined probability of these events may therefore be obtained as follows: Since the first digit in each case could have been any one of nine in the range 1-9, and each of the remaining matching digits, any one of ten in the range 0-9, each event is associated with a probability of 1/90,000; and because they are independent and represent the most significant of the physical constants, the final assessment must argue heavily against them occurring fortuitously.



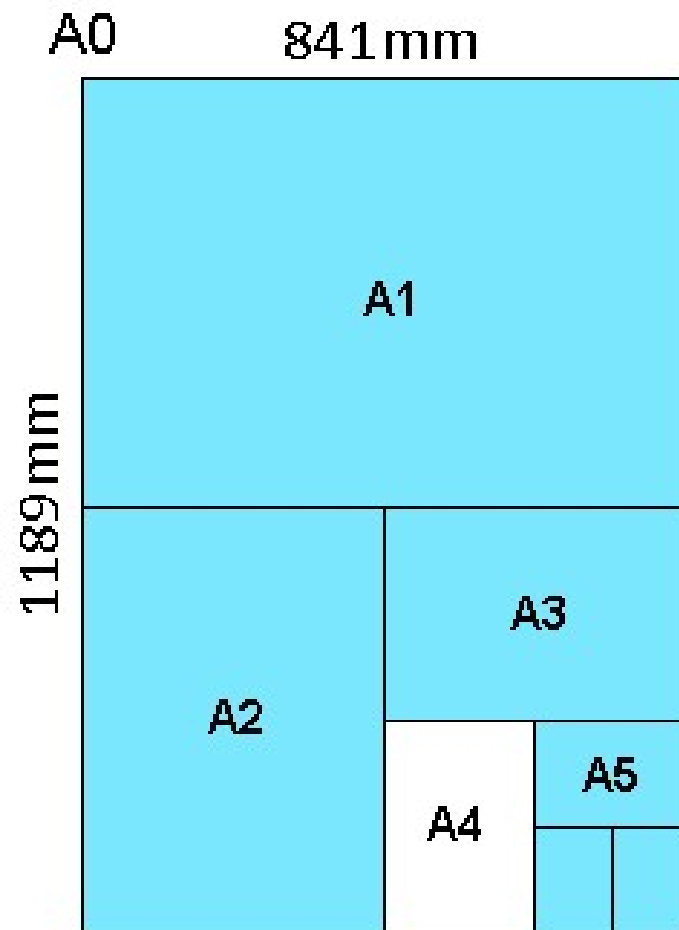
Conclusion

Let us briefly recap:

- The Hebrew letters and words of the Old Testament and the Greek letters and words of the New Testament each have an uncontrived numerical dimension (the CV, or "characteristic value") that arises directly from their involvement in the alphabetic numbering systems of these early peoples.
- The application of a simple numerical procedure to the Hebrew letters and words of the Bible's first verse (Gen.1:1) generates an approximation of π , correct to 5 significant figures (error: - 0.0012%).
- The application of the identical procedure to the first verse of the Gospel of John (which has much in common with Gen.1:1) generates an approximation of e , also correct to 5 significant figures (error: + 0.0011%).
- The expectation of these events occurring together is 1 in 8.1 billion.
- Given the circumstantial evidence linking these two verses - both textual and geometrical - it would be extremely unreasonable to write off these coincidences as extremely remarkable accidents; indeed, far more likely that they are features of ***purposeful design***.

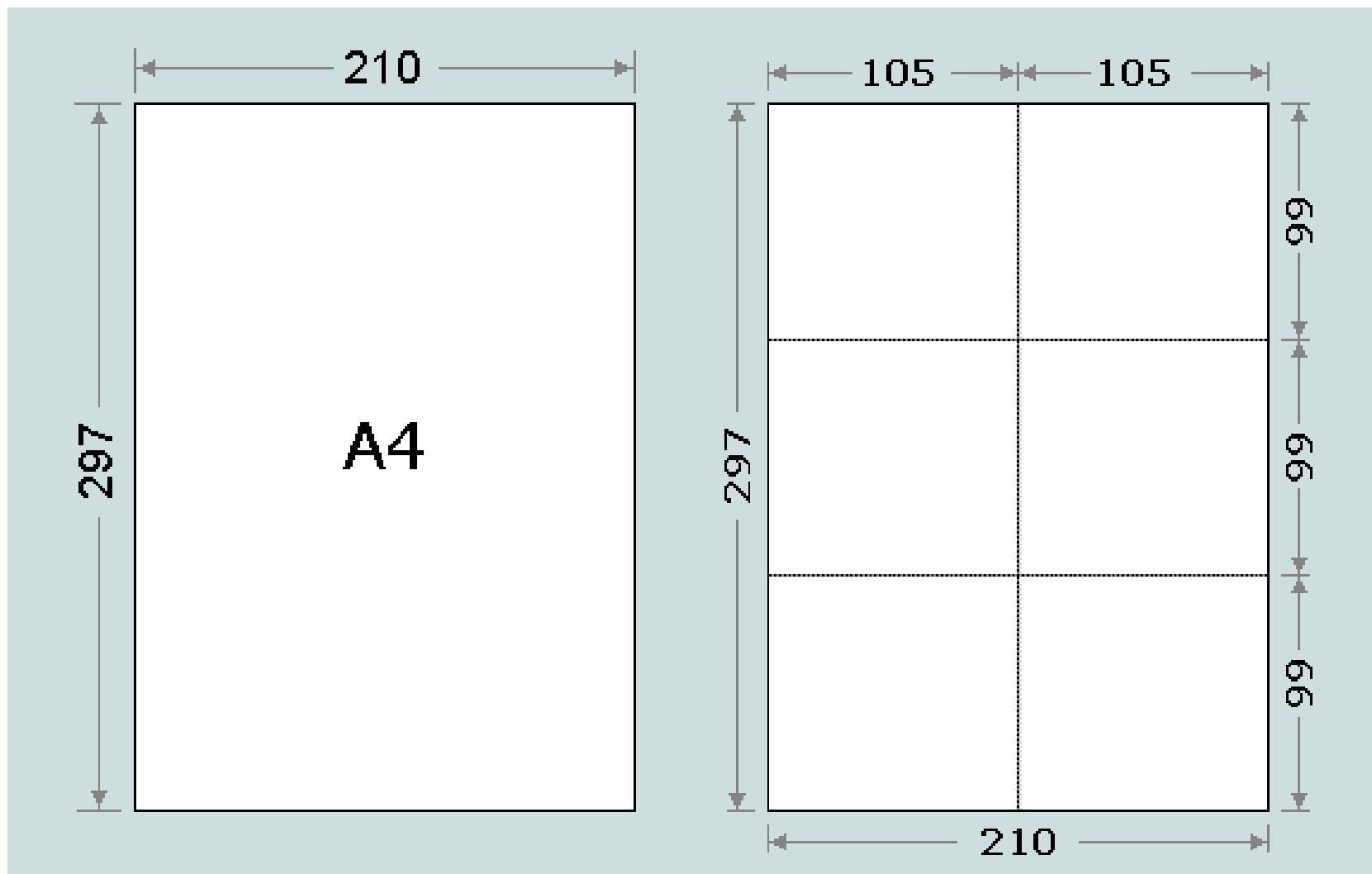


3. Foretelling the Metric Dimensions of An Abundant Common Artefact



ISO 216 A-Series Formats	
A0	841 x 1189
A1	594 x 841
A2	420 x 594
A3	297 x 420
A4	210 x 297
A5	148 x 210
A6	105 x 148
A7	74 x 105
A8	52 x 74
A9	37 x 52
A10	26 x 37

ISO 216: The A-Series of cut paper sizes



A dimensioned/partitioned A4 sheet

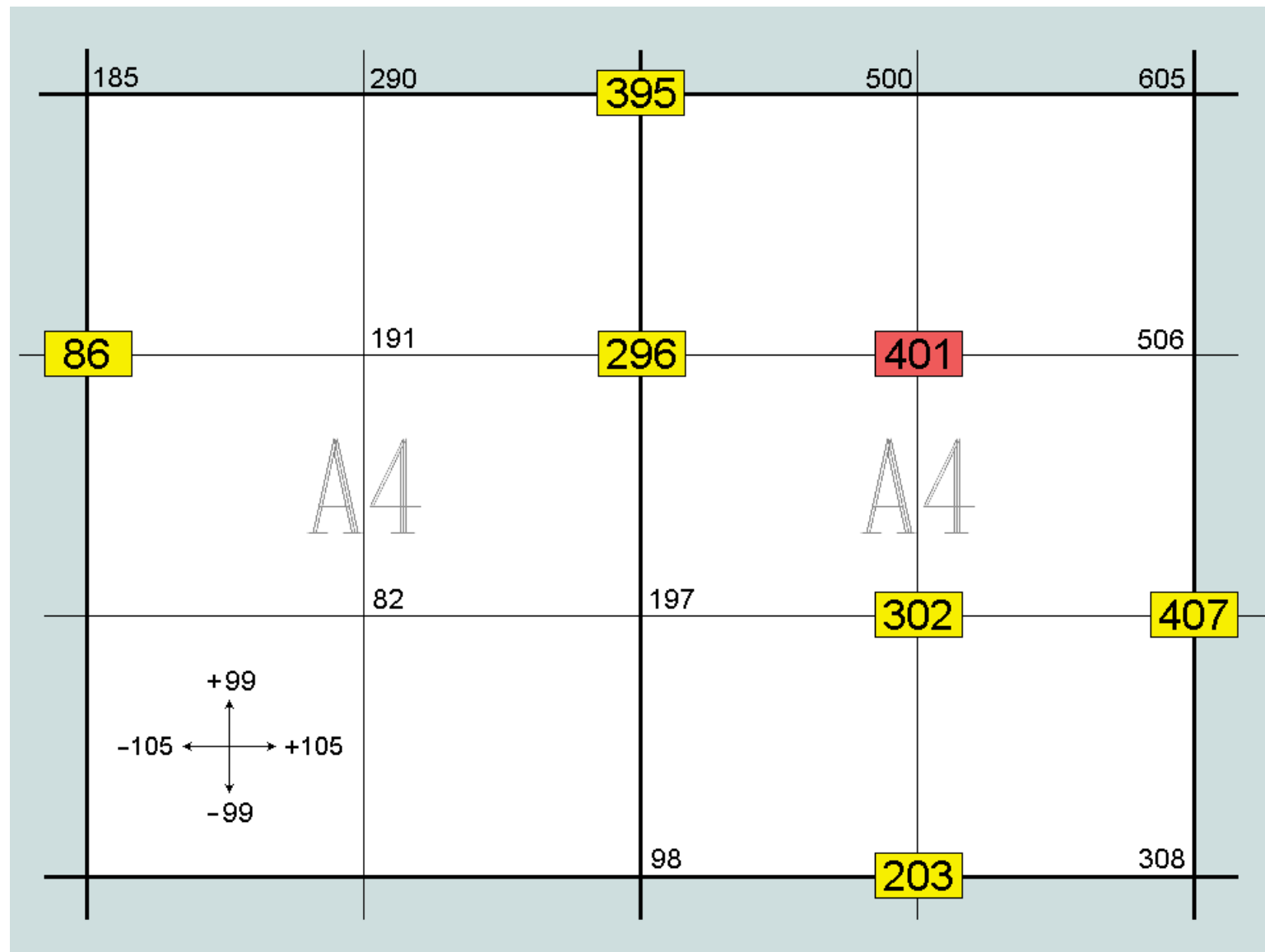


- A REMINDER -

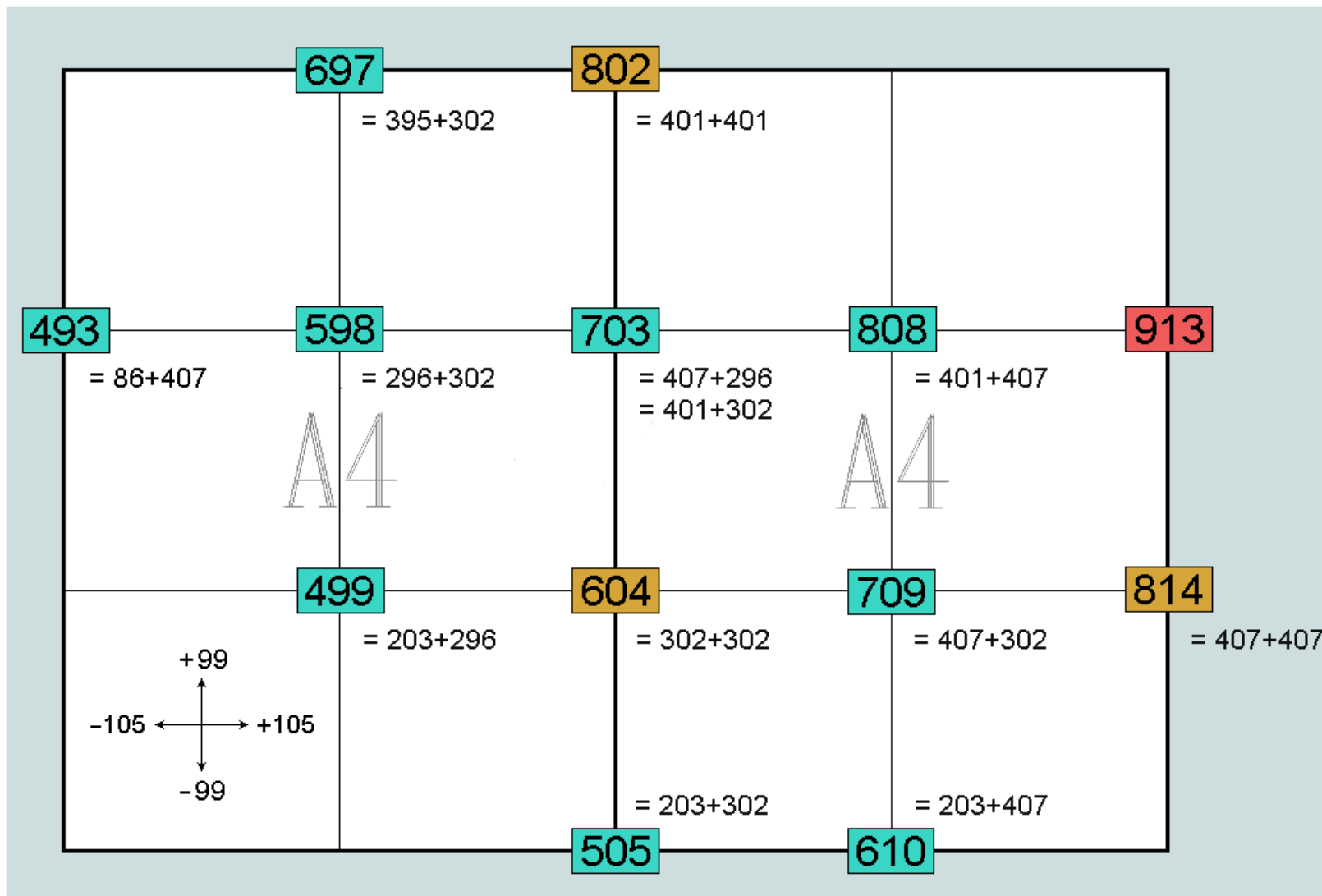
THE GENESIS 1:1⁺ NUMBER SET :-

913, 203, 86, 401, 395, **407, 296**, 302

$$407+296 = \mathbf{703} = 401+302$$



A pair of A4 sheets reveals numbers 2 – 8 of the Genesis⁺ set



A pair of A4 sheets reveals the relationship 703/913, and more

This miracle – based upon the principal numerical features of the Bible's 'CREATION' verses may be found detailed in the author's book The Second Edge (available for free downloading at www.whatabeginning.com/Book.pdf)

The Genesis of a Standard

Here, we briefly review the sequence of events that has led inexorably to the appearance of A4 in our day:

- He who created the earth must already have decided what size it should be – a decision that would become a key factor in determining the absolute length of the metre in the 18th century;
- He who created the earth also created man – having already made decisions concerning his physical, mental, and other attributes which, ultimately, would determine a suitable and preferred document shape and size for general use;
- He who created had also made it clear that ten was a significant number – particularly suitable for use, (a) as radix for man's systems of number representation and, (b) as a multiplier and sub-multiplier to complement the metre in the establishing the *metric sytem's* dominance in 21st century metrology;
- man's decision to choose the square root of 2 ($\sqrt{2}$) as the ratio of the sides of his preferred shape, the rectangle, has arisen from considerations of utility, economy, and simple logic – as befitting those created in God's image;
- man's need to communicate and calculate led to the development of language and an evolving system of numeration

It is therefore exceedingly difficult to avoid the conclusion that all who, though unwittingly, had a hand in bringing about the *Ultimate Assertion / A4* phenomena were simply responding to the dictates of a Higher Authority! An adequate explanation thus demands the existence of an Omniscient, Omnipotent, Interested and Purposeful *Supervisor*. Surely, He can be none other than *Elohim*, the God of Creation – the Lord Jesus Christ!



OVERVIEW CONCLUSIONS

To believe words – purportedly Divinely-Inspired - requires faith; on the other hand, to find intricate and related patterns in the numbers that derive from words is hard evidence of *purpose*, its Author – clearly, Highly Talented and Determined – intent on projecting a particularly vital message to all alive in our day.

Thus, confirmed in this remarkable way, we infer the related words to be true – **no longer by faith alone**. Included in the wonder of all this, must be

1. The economy by which such revelation has been achieved;
2. The Author's knowledge of the schemes of Greek and Hebrew alphabetic numeration, of Euler's number (e) and of the A-series of cut paper sizes some millennia before their appearance on Earth;
3. The decision of our Creator to so reveal both Himself and the Inerrancy of His Word at this point in time, and in such a manner.



“God, who is like You among the gods people worship! Who, like You is majestic in holiness, awesome in praise, working wonders.”

(Exodus 15:11)