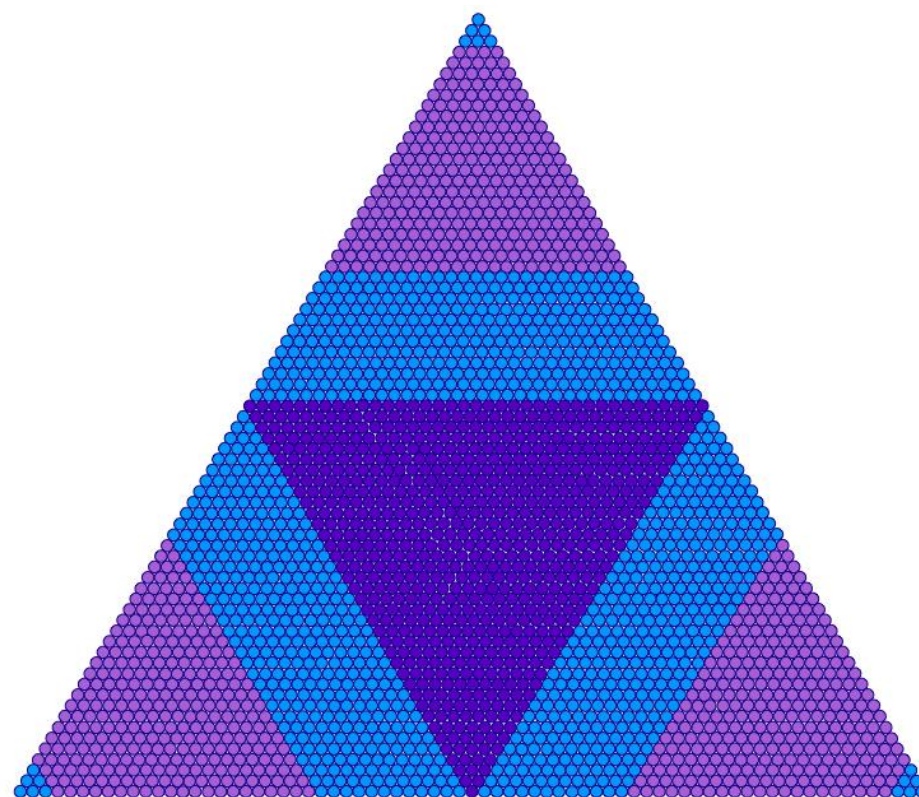


Supernatural Science



בראשית ברא אלהים את השמים ואת הארץ
296 407 395 401 86 203 913

A watermark within Scripture

Science and Creation

Belief in God is the foundation upon which western civilization was built. Many generations of believers have regarded the Bible as the Word of God and have lived by its precepts.

However, today the authority of the Bible is increasingly called into question by secularists, humanists, atheists and others, who often claim that *scientific naturalism* can replace Christianity as the basis for our cosmology, values and life choices.

Does the Bible have an answer to such modern critics?

Scientific Naturalism

Naturalism is . . . *the philosophical belief that everything arises from natural properties and causes, and supernatural or spiritual explanations are excluded or discounted.* **Oxford English Dictionary**

Scientific naturalism puts particular emphasis on the scientific method of studying nature and claims that all phenomena, including religious belief, will ultimately be explained by science.

Scientific naturalism does not deny that God could exist, but it does deny that He is not needed to explain the world we see around us, and so there is no reason to suppose or just “believe” that God does exist.

Faith and Evidence

Faith is the great cop-out, the great excuse to evade the need to think and evaluate evidence. Faith is belief in spite of, even perhaps because of, the lack of evidence.
Richard Dawkins

Faith, in the sense in which I am here using the word, is the art of holding on to things your reason has once accepted, in spite of your changing moods. CS Lewis

Most believers experience of faith is closer to CS Lewis' description than Dawkins' caricature.

But people increasingly demand evidence acceptable to science before putting their faith in something.

Mathematics, The Language of Science

“Mathematics is the queen of sciences and number theory is the queen of mathematics” Carl Friedrich Gauss

The language of science is mathematics, communicating scientific knowledge in a **universally understood form**.
 $2 + 2$ will always equal 4 no matter where you go!

Wouldn't it be wonderful if the Bible had a message for us, written in this very language? This is possible, because;

1. The Bible can be read as a set of numbers, and
2. Numbers can convey mathematical concepts.

Mathematics by Numbers

Mathematical concepts conveyed by numbers include:

1. Numbers that can be depicted as geometric figures.

Examples: triangular, square and cubic numbers.

2. Numbers fundamental to pure mathematics.

Examples: π , e , ϕ , sq. root 2.

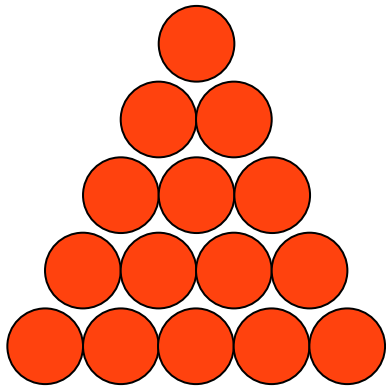
3. Numbers specifying fundamental properties of nature.

Examples: α , c , h , G .

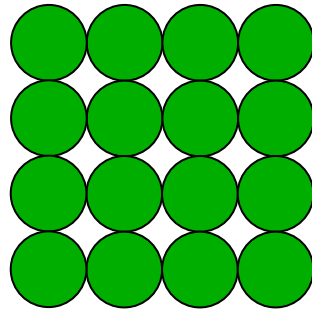
1. Figurate Numbers

Many numbers can be depicted as geometric figures.

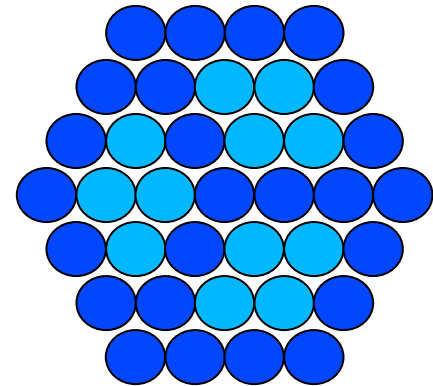
Triangle 15



Square 16



Cube 64

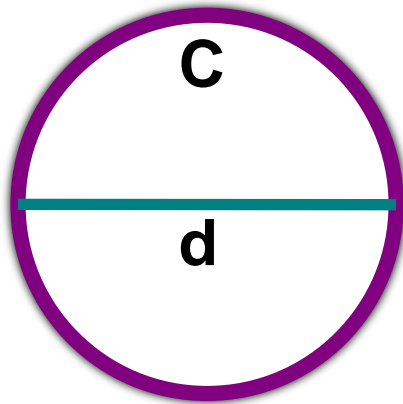


There are sequences of numbers for every geometric figure. Triangular numbers: 1, 3, 6, 10, 15, 21, 28, . . .

Geometric figures can symbolize ideas. Triangles symbolize the Trinity, squares the world, cubes holiness.

2. Mathematical Constants

The most important absolutes in mathematics are ***pi*** and **e**, which are also essential in science and technology.



pi is the ratio of the circumference of a circle to its diameter.

$$pi = C/d = 3.141592653. . .$$

e is the base of natural logarithms and governs the rate of processes like population growth, radioactive decay and accumulation of interest on bank accounts.

$$e = 2.718281828$$

3. Physical Constants

These are distinct from mathematical constants as they are measured properties of the physical universe. They include *alpha* (*electromagnetic fine structure constant*), *c* (*speed of light in a vacuum*), *G* (*gravitational const*).

One important physical constant is *alpha*, a measure of the strength of the interaction between light and matter.

Alpha is almost exactly $1/137$ and seems to have been finely calibrated for the emergence of life.

Alpha came to light in the study of *quantum electrodynamics*, the most accurate scientific theory of matter ever devised - the jewel in the crown of science.

Reading The Bible by Numbers

1. Alphabetic Numeration

Beginning ca. 200 BC, Hebrew letters doubled as numbers for counting purposes. Letters were given the values 1 - 9, 10 - 90 and 100 and upwards.

Aleph = 1, *Beth* = 2, *Gimel* = 3, *Shin* = 300, *Tav* = 400.

Words and strings of words could also be given numerical values, by summing the values of the letters.

2. Textual Numbers

These can be part of the text (969, 1260) or found by counting the letters or words in a portion of text.

Numerics or Numerology?

This work might be called *Bible numerics*. Numerology is a counterfeit, as mediumship is to prophecy.

The Bible is already full of intriguing numbers, many of which are well known in mathematics, such as 666, 153 and 276. They are just as important as the words.

The numeration schemes are historically attested and used for counting purposes. This is a natural extension.

Rev. 13 invites those with 'insight' to 'calculate the number of the beast'. 'Insight' suggests looking further. Rev. 15 suggests those who are victorious over the beast and his number are furthering God's purposes.

Genesis 1.1 (Hebrew)

בְּרֵאשִׁית	בָּרָא	אֱלֹהִים	אֶת	הַשָּׁמַיִם	וְאֶת	הָאָרֶץ
913	203	86	401	395	407	296

earth the and heavens the God created beginning the In

This is the standard text of the Hebrew Bible (*Biblia Hebraica*), called the Masoretic text. The oldest complete copy is the Leningrad Codex, dating to 1008 AD.

The words are much older, received by Moses ca. 1400 BC, *or*, according to historians, written between 8th Cent. BC and 3rd Cent. BC.

It is a sweeping statement of our origins. Does it have anything more to say? Let's see if the numbers speak.

Genesis 1.1 by Numbers

בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296

Number of letters in Genesis 1.1 = 28

Number of words in Genesis 1.1 = 7

In the Bible, **7** symbolizes *completion, rest and spiritual perfection*. It is found more than any other number.

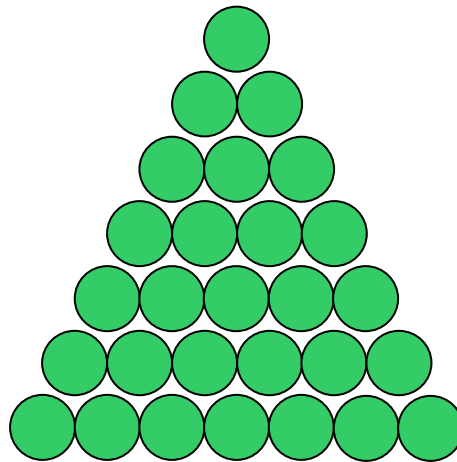
In mathematics, **28** is a ***perfect number***, being equal to the sum of its divisors. So $1 + 2 + 4 + 7 + 14 = 28$.

And there is a hidden link between these two numbers.

Triangle 28

28 and 7 are geometrically related, because 28 is a triangular number, the 7th in its sequence.

Triangle 28

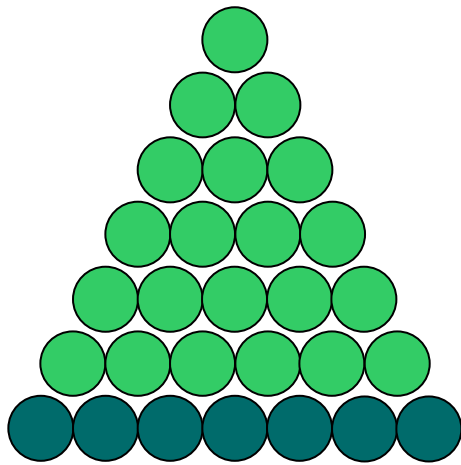


The triangle is the *simplest geometric sequence*, formed by progressively summing the natural numbers.

$$\text{So } 1 + 2 + 3 + 4 + 5 + 6 + 7 = 28$$

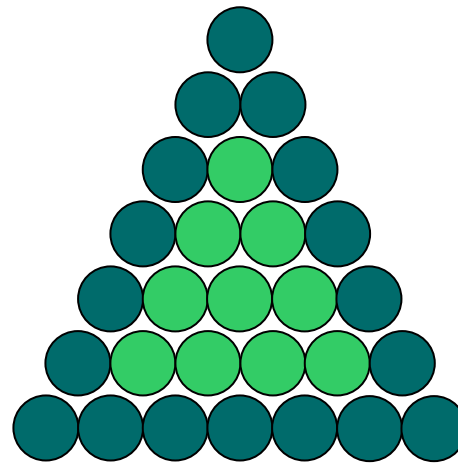
The Internal Structure of Triangles

Numerical triangles have structural properties. For triangle 28 we have the following properties.

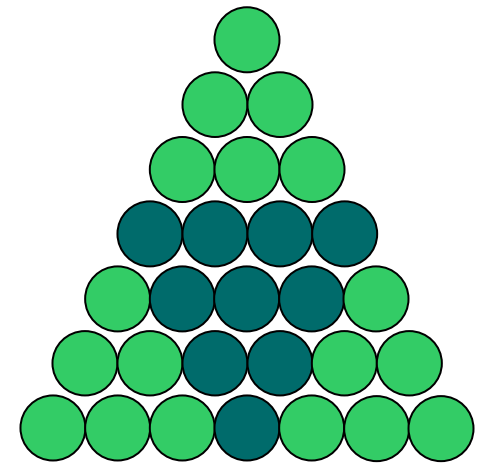


Base of 7 units

Satellites of 6 units



Outline of 18 units



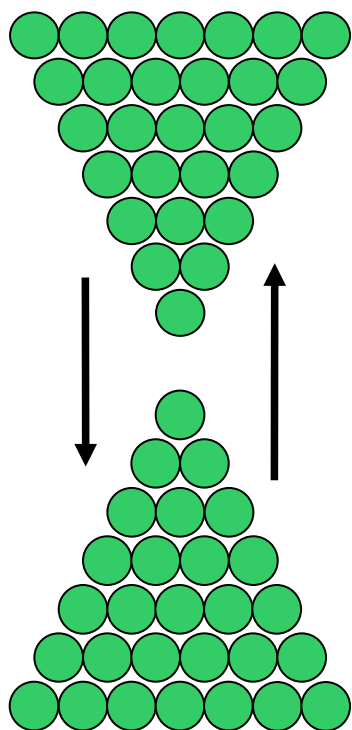
Core of 10 units

The base is also the positional value of the triangle in the sequence of triangular numbers.

From Triangle to Hexagram

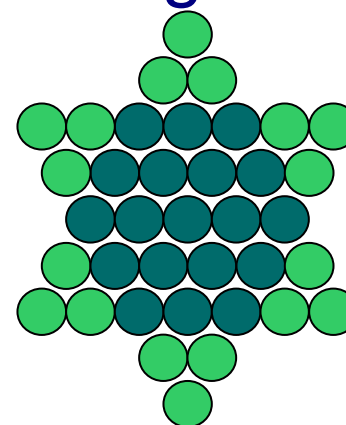
One in every three triangles can intersect with an inverted copy of itself to create a Star of David. Triangle 28 is one of them.

Triangle 28 Self-intersection



Hexagram 37

Hexagon 19



Numbering the Word

By converting each letter into its numerical value according to the Hebrew numeration system, we can sum them and numerate each word and the verse.

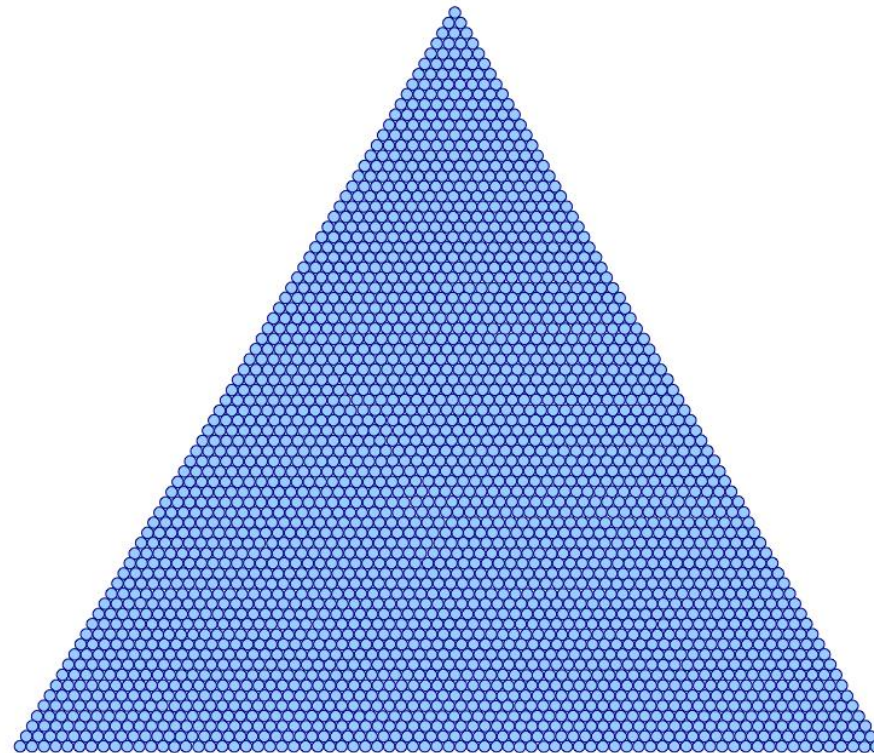
7	6	5	4	3	2	1		
2	4	3	4		2	4	3	2
9 0	0	4 1 4 0	0	4 1 3	0	0 1 0	0	
0 0 1 5	0 1 6	0 0 0 0 5	0 1	0 0 5 0 1	1 0 2	0 0 0 1 0	2	
הָאָרֶץ	וְאֵת	הַשָּׁמַיִם	אֶת	אֱלֹהִים	בָּרָא	בְּרֵאשִׁית		
296	407	395	401	86	203	913		
the earth	and	the heavens		God	created	In the beginning.		

Numerical value of Genesis 1.1 = **2701**

The Creation Triangle

2701, the numerical value of Genesis 1.1 (Mas.), is also a triangular number, the 73rd in the sequence.

Triangle 2701



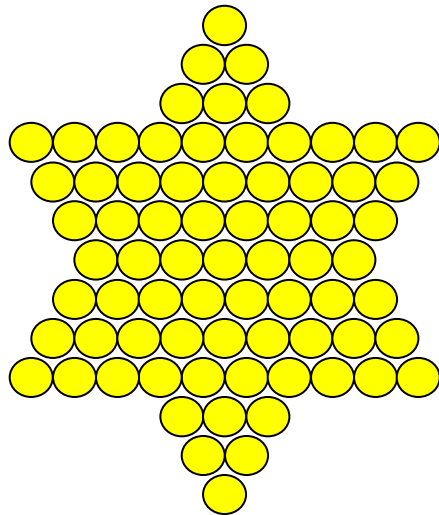
בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296

The Factors of 2701

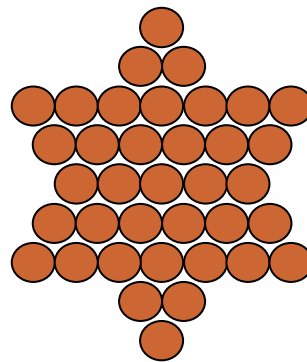
$$2701 = 37 \times 73$$

These factors have reflective symmetry and are part of the same geometric sequence, the centred hexagrams.

Hexagram 73

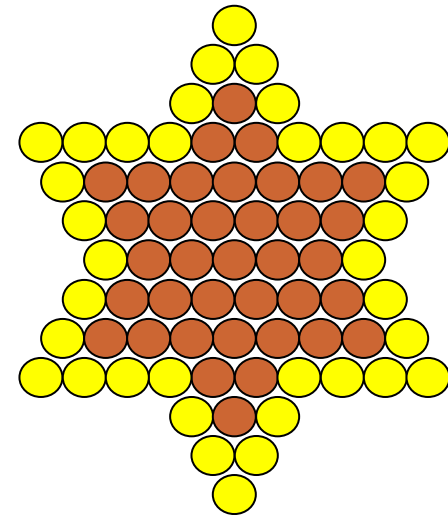


Hexagram 37



Hexagrams

73 and 37



The First Division

The last two words of Gen. 1.1 are 'and the Earth', which are distinct from 'the heavens'.

Dividing the first verse of Genesis accordingly we separate its numerical value of 2701 into two parts.

7	6	5	4	3	2	1
הָאָרֶץ	וְאֵת	הַשָּׁמַיִם	אֵת	אֱלֹהִים	בָּרָא	בְּרֵאשִׁית
296	407	395	401	86	203	913
the earth	and	the heavens		God	created	In the beginning.

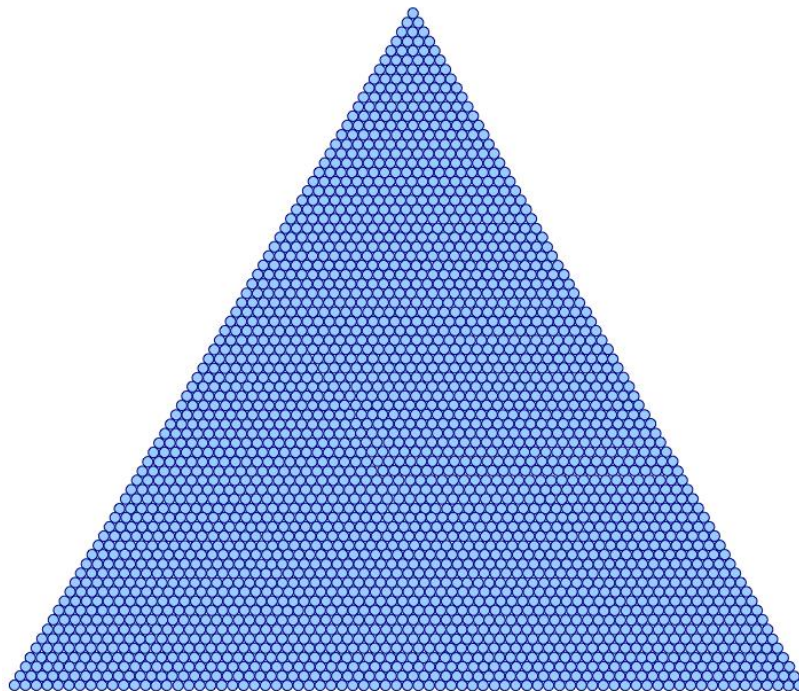
Numerical value first five words = 1998

Numerical value last two words = 703

Two Triangles

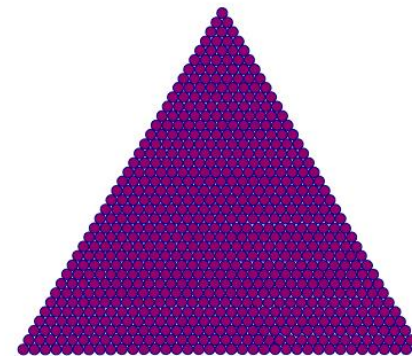
703 is also a triangular number, the 37th. $2701 = 73 \times 37$ and the reflective factors of this number also reflect the number of counters along the bases of triangles 2701 (73) and 703 (37).

Triangle 2701



בראשית ברא אלהים את השמים ואת הארץ
296 407 395 401 86 203 913

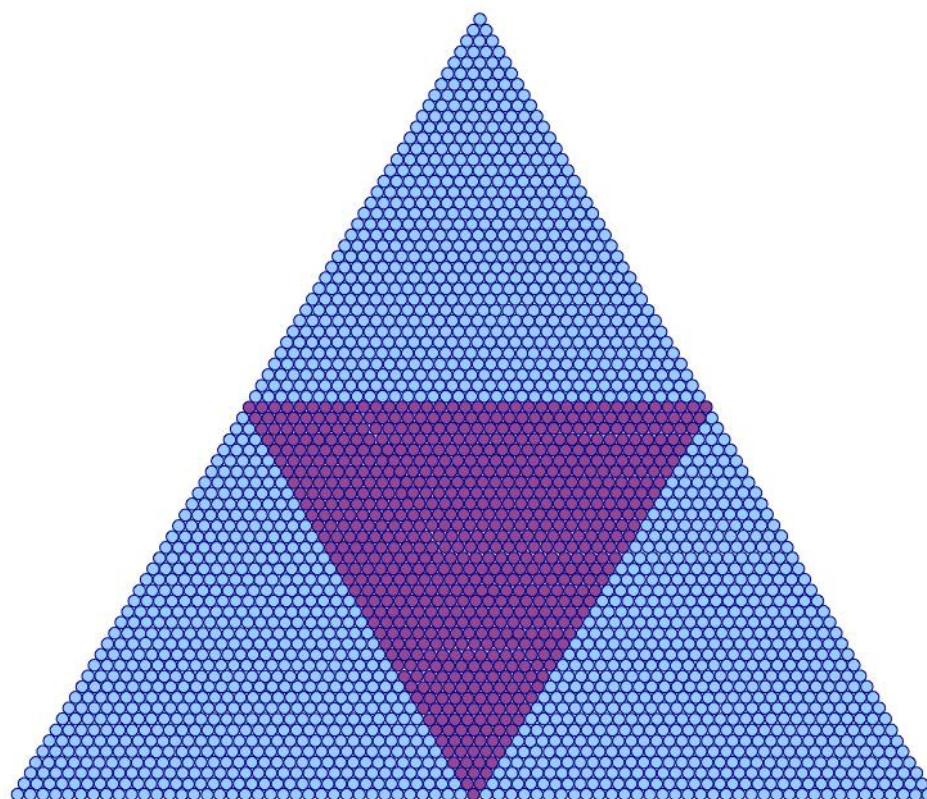
Triangle 703



בראשית ברא אלהים את השמים ואת הארץ
296 407 395 401 86 203 913

Triangle 703 at the Core

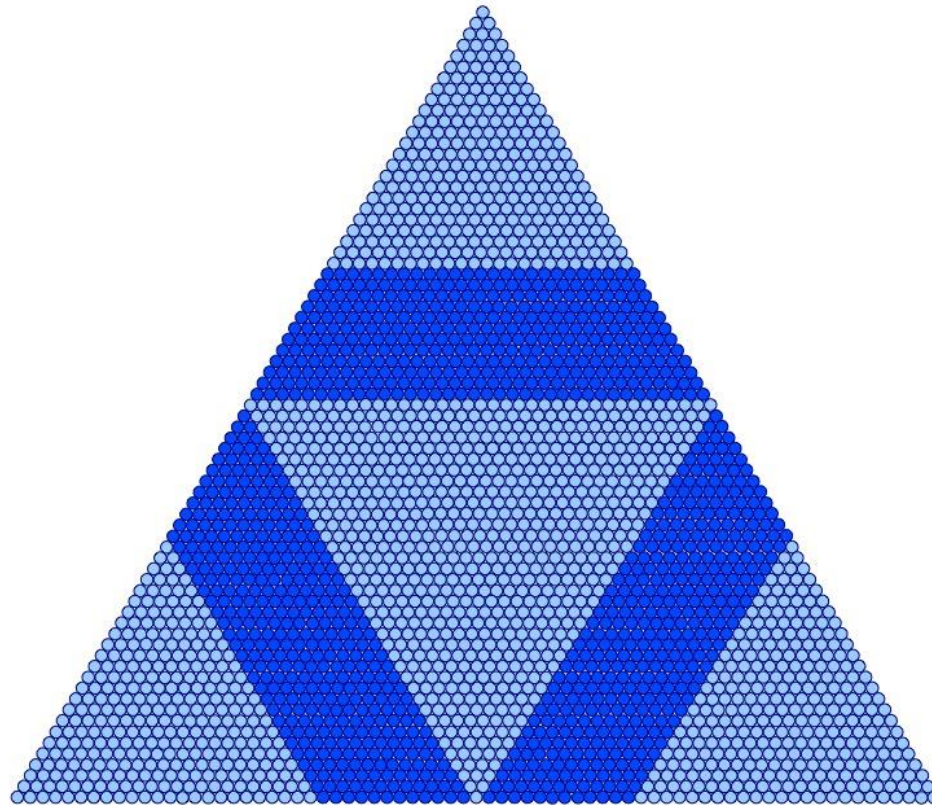
Triangle 703 divides triangle 2701 into a core triangle of 703 counters and three satellites of 666 counters.



בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296

Three Trapezia

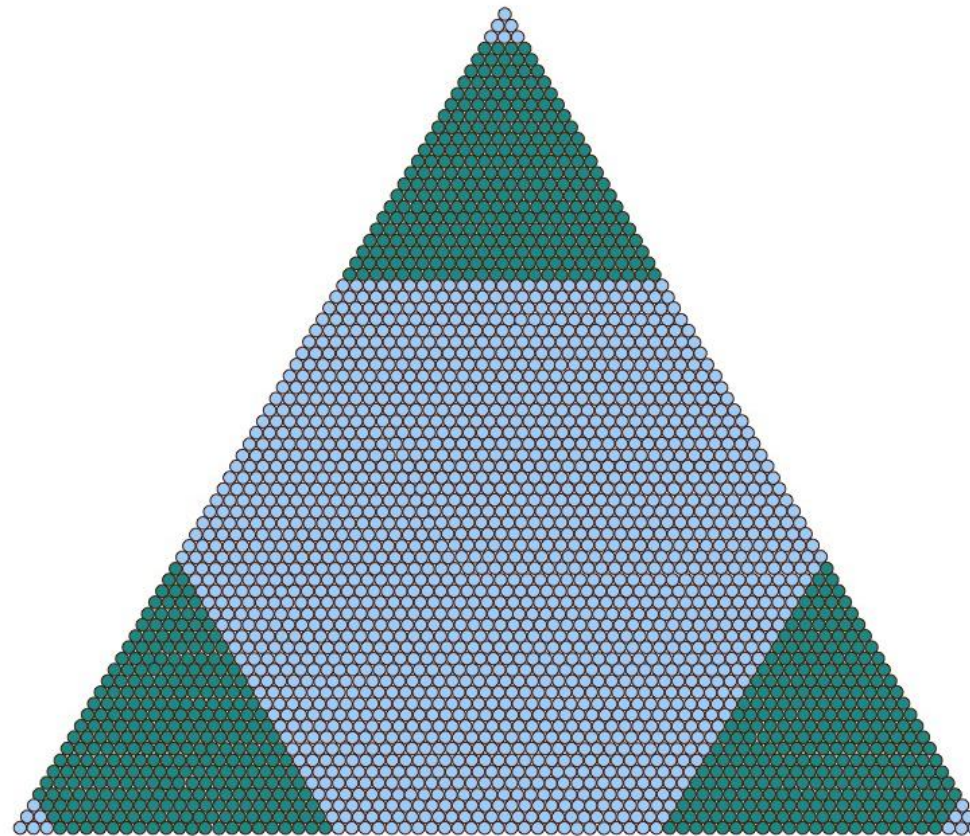
The last three words sum to 1098, represented here as three trapezia, suggesting triangle 703 and hexagon 1801.



בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296

Hexagon1801

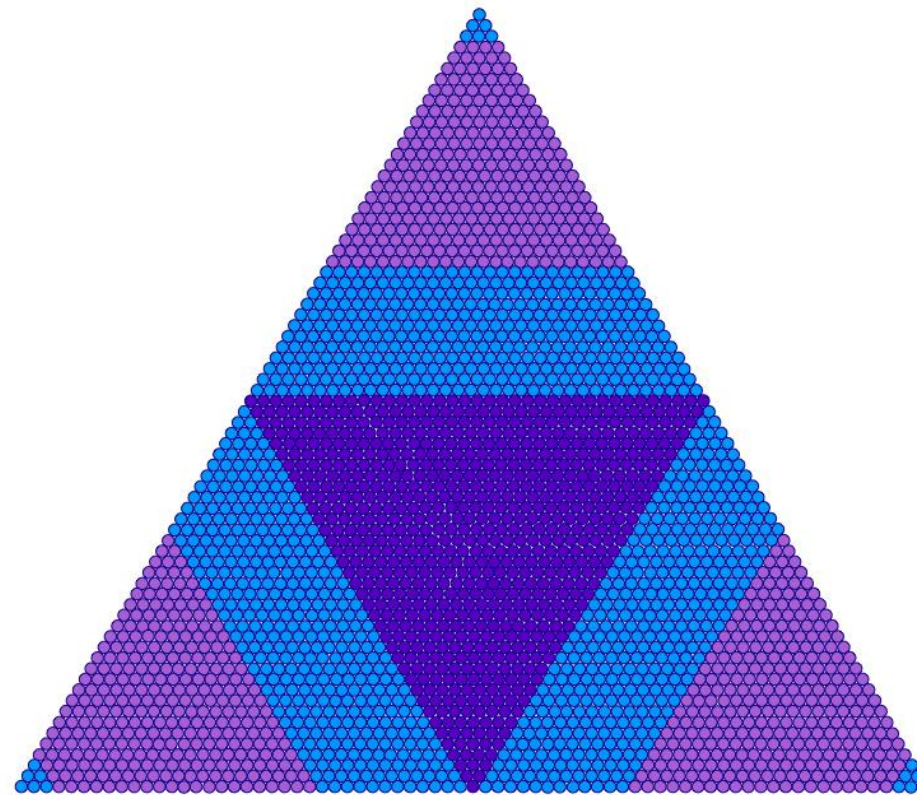
The central three words sum to 882, which is the sum of three trapezia surrounding hexagon 1801.



בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296

Trisecting the Verse

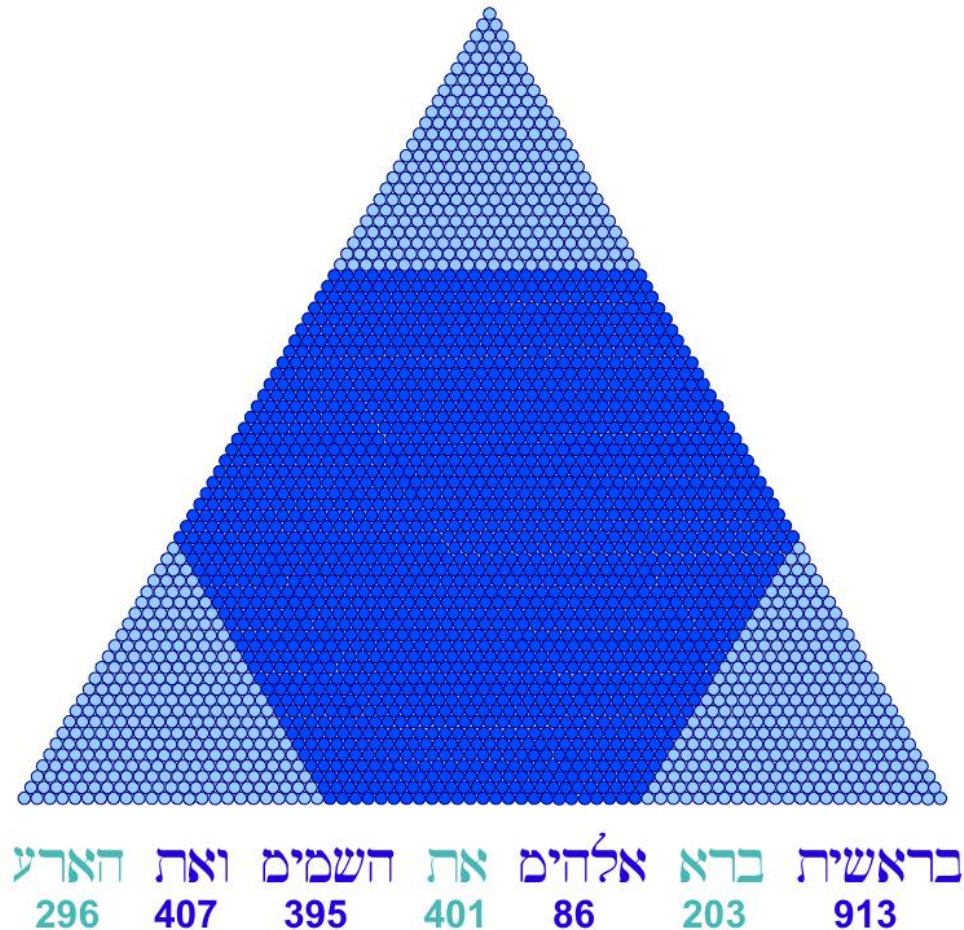
The entire verse can be trisected and this illustrated to reveal hexagon and triangle at the centre of a symmetrical pattern.



בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296

Hexagon 1801

If we take broken strings of words into account, the hexagon of 1801 counters can be found on its own within Genesis 1.1.



An Outline of Triangle 2701

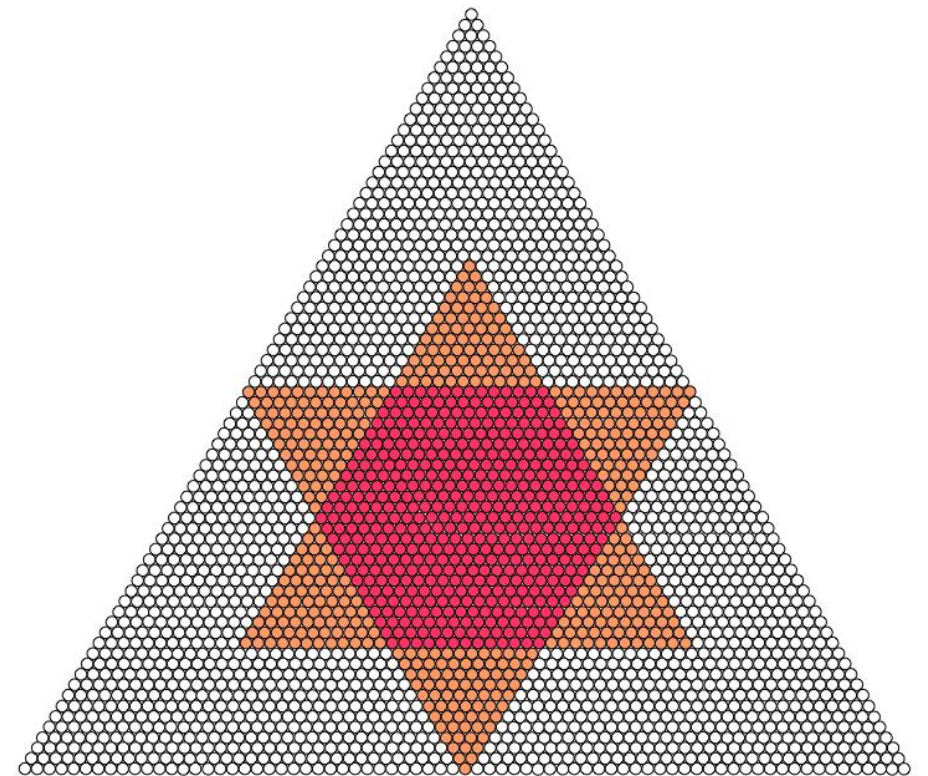
Triangle 2701 has 216 counters around its perimeter.
If we allow subtraction then this is found here too.



$$913 - 401 - 296 = 216$$

A Star of David

By adding and subtracting word strings in the pattern
2-3-2, we find a perfectly-fitting Star of David



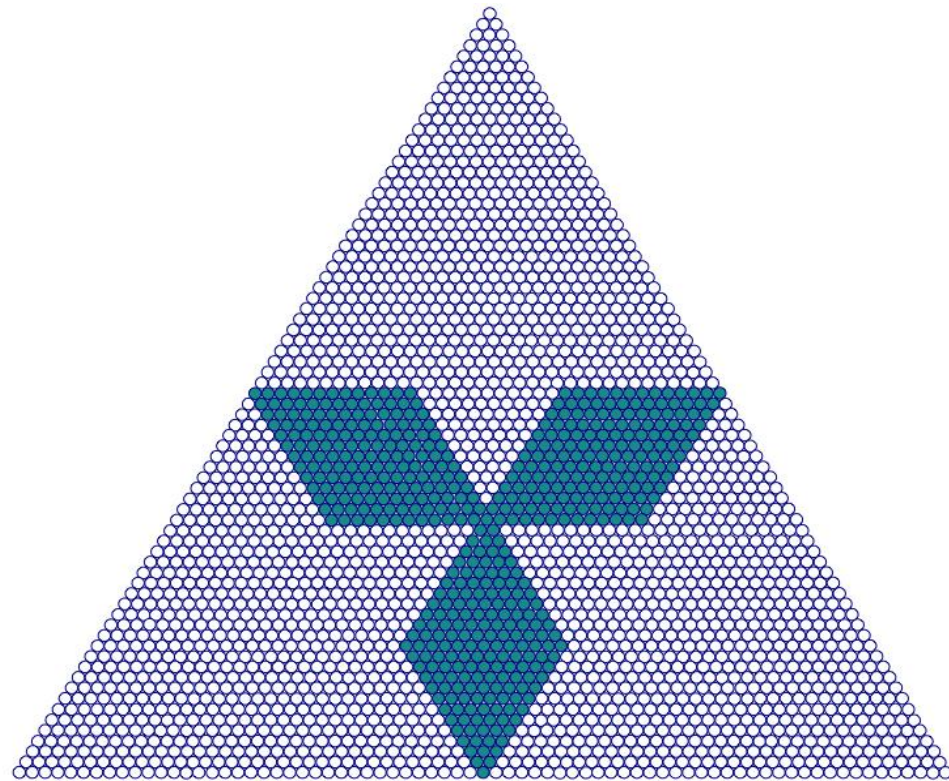
בראשית ברא אלהים את השמים ואת הארץ
1116 882 703

$$1116 - 882 + 703 = 937$$

$$882 + 703 - 1116 = 469$$

The Trefoil

Subtracting the last three words from the first four yields a trefoil, again fitting perfectly into the triangle.

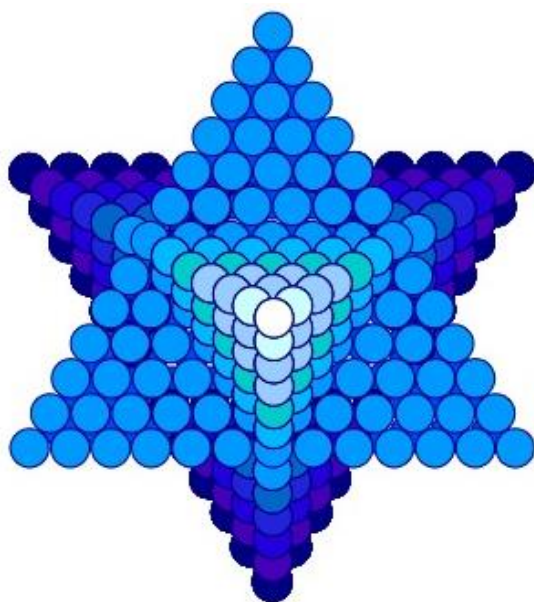


בראשית	ברא	אלהים	את	השמים	ואת	הארע
913	203	86	401	395	407	296

$$(913 + 203 + 86 + 401) - (395 + 407 + 296) = 505$$

A Star Tetrahedron

By alternately adding and subtracting each word we get a 3-D object created from two interpenetrating tetrahedra. Also called a *stella octangula*.

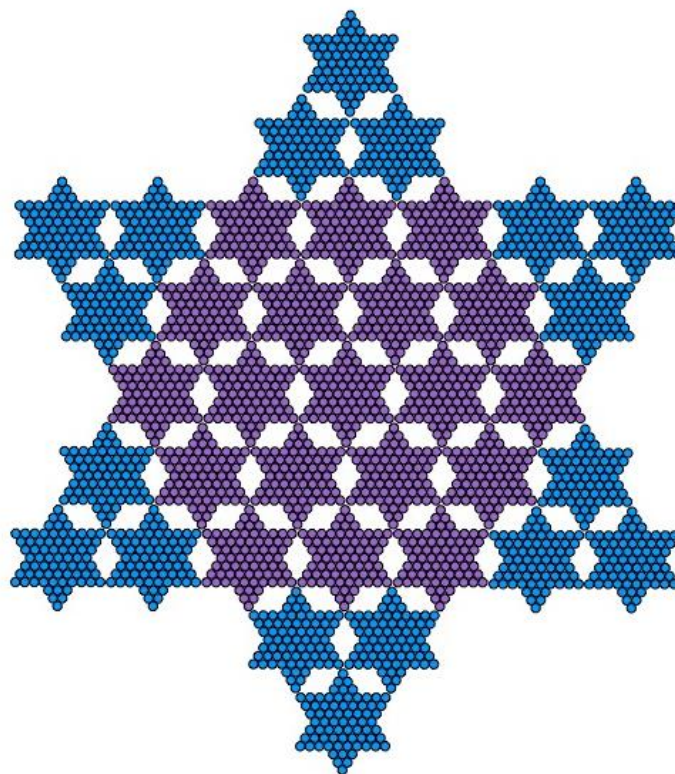



בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296


$$913 - 203 + 86 - 401 + 395 - 407 + 296 = 679 \text{ (7th ST)}$$

Another Star of David

Hexagram (37) of Hexagrams (73)



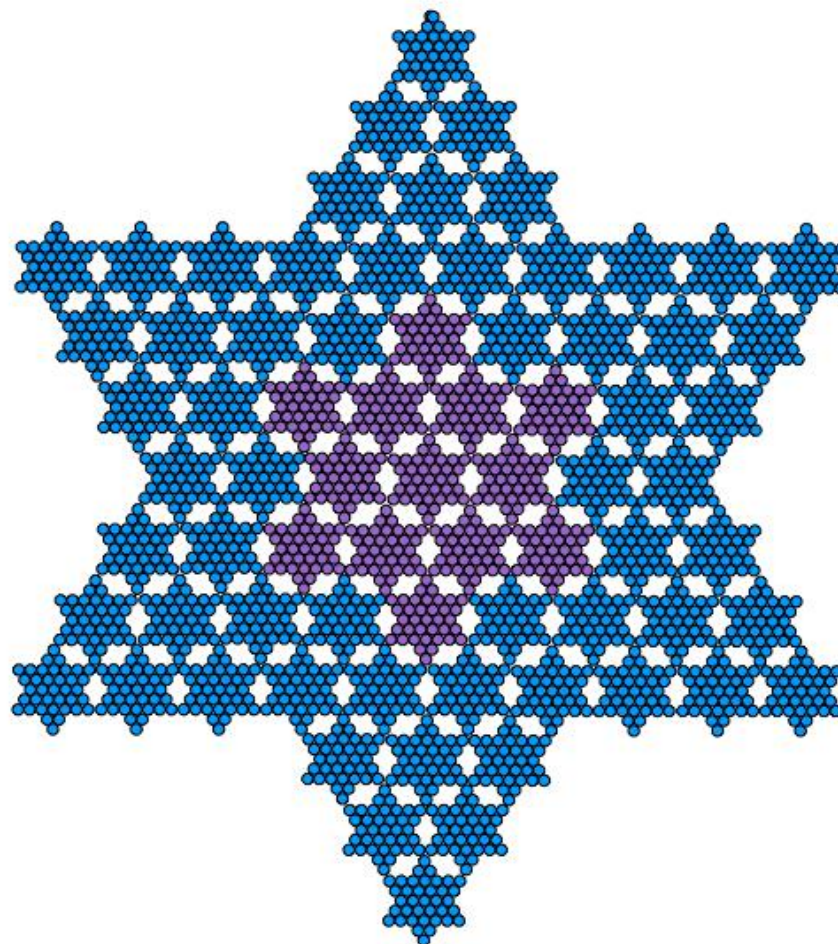
 x 19 = 1387

 x 18 = 1314

בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296

Hexagram (73) of Hexagrams (37)

481



בראשית	ברא	אלהים	את	השמים	ואת	הארץ
913	203	86	401	395	407	296

John 1.1

The prologue of John's gospel begins in a way that consciously imitates the theme of Genesis and introduces the word.

Εν αρχη ην ο λογος, και ο λογος ην
In the beginning was the word and the word was
προς τον θεον, και θεος ην ο λογος
with - God and God was the word..

The standard Greek text is the *Textus Receptus*, prepared in the 16th Century AD from various manuscripts.

Greek letters, like Hebrew, double as numbers, a system known as Ionian numerals and dating to at least the 4th century BC.

The Greek scheme is almost identical to the Hebrew scheme, with alpha to omega taking the values 1 to 800.

Numbering the Word

Εν αρχη ην ο λογος, και ο λογος ην
In the beginning was the word and the word was
55 719 58 70 373 31 70 373 58
προς τον θεον, και θεος ην ο λογος
with - God and God was the word.
450 420 134 31 284 58 70 373

Numerical value of John 1.1 (T.R.) = 3627

$$3627 = 39 \times 93 \text{ (} 39=3 \times 13 \text{ \& } 93=31 \times 3 \text{)}$$

This reflects the factors of triangle 2701:

$$2701 = 37 \times 73$$

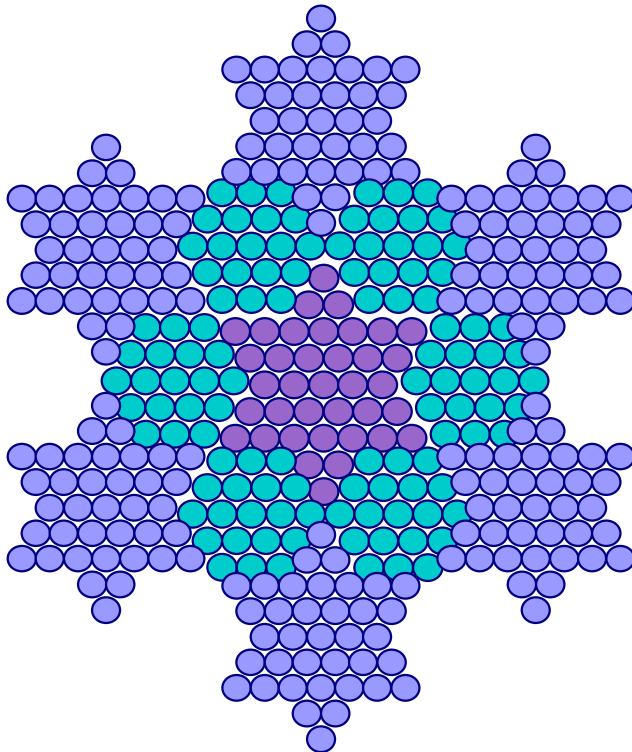
$$\text{Logos (Word)} = 373$$

The Logos Snowflake

373 (logos) is a fractal snowflake, and the platelets forming it are none other than hexagram 37 and hexagon 19.

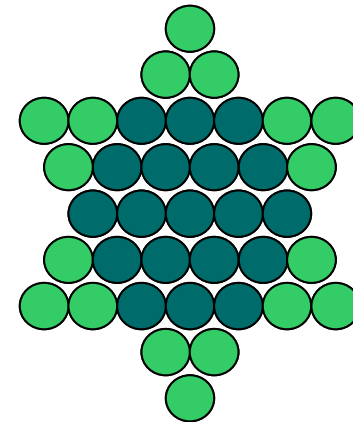
Snowflake 373

logos = 373



Hexagram 37

Hexagon 19



3627 as a Plinth

The numerical value of John 1.1 is 3627. This number of counters will form a plinth or trapezium, as shown.

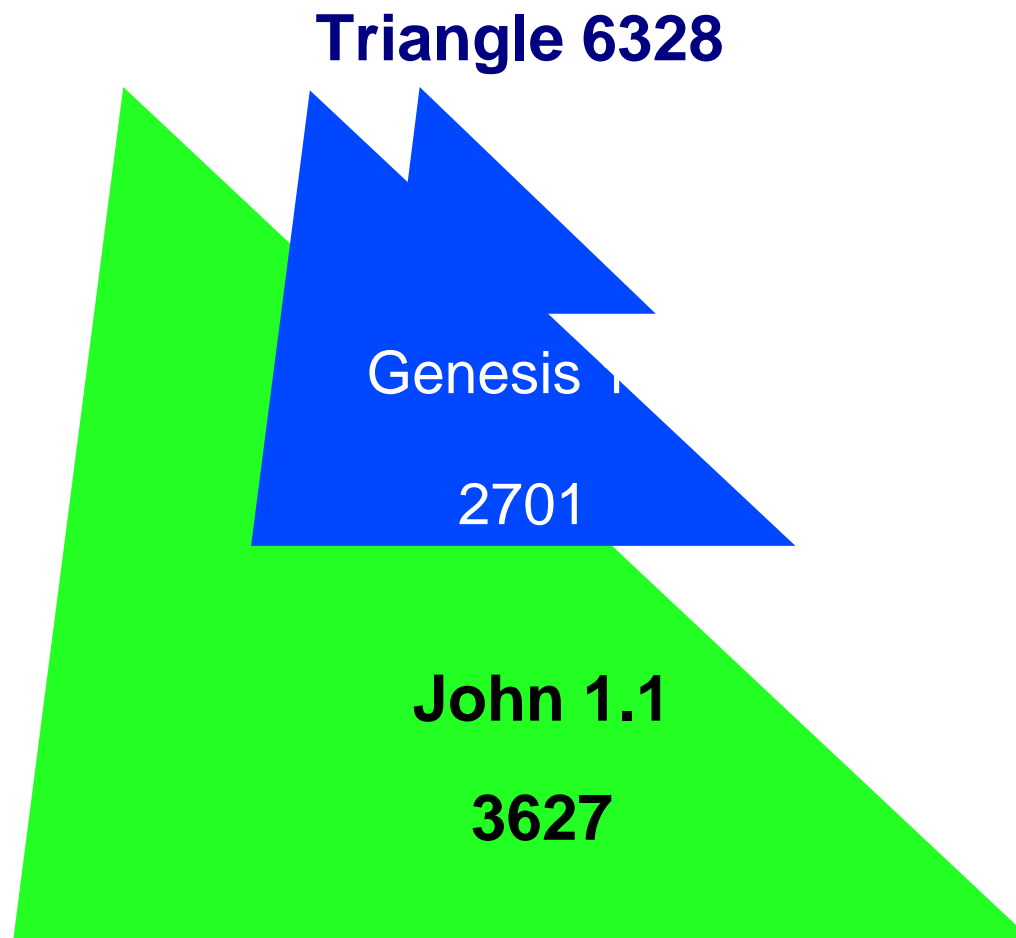
John 1.1

***In the beginning was the word
and the word was with God and
the word was God.***

Just as John 1.1 is thematically and positionally related to Genesis 1.1, so 3627 is geometrically related to 2701.

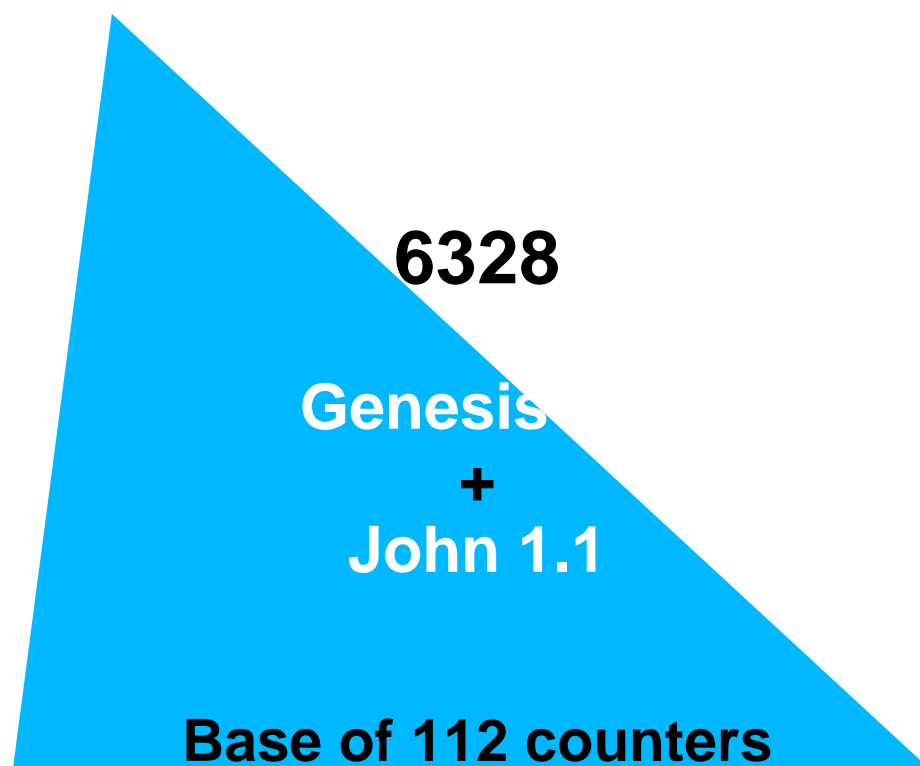
The Greater Creation Triangle

Upon plinth 3627 can be placed triangle 2701, to build a larger triangle with 6328 units.



The Greater Creation Triangle and the Creator

6328 is the 112th in the sequence of triangular numbers.



112 is the value of the name for God introduced in Genesis 2:

יְהוָה אֱלֹהִים (The Lord God) = 112

Pause for Reflection

Could the ancients have encoded these numbers?

Pythagorus, ca. 500 BC, understood figurate numbers.

We can't prove that the words, as originally scribed, were in this precise form.

Could Genesis 1.1 have been tweaked to encode triangular numbers? (*Would Jews have wanted to suggest a Triune God?*)

Could the writer of John have discovered what was done and signaled his understanding by doing the same to John 1.1?

It's highly unlikely, but just possible.

But what follows could not have been the work of man.

Calculating the Number - Genesis 1.1

בראשית ברא אלהים את השמים ואת הארץ
913 203 86 401 395 407 296

In the beginning. created God the heavens and the earth.

Formula
$$\frac{\text{Product of letter values} \times \text{Number of letters}}{\text{Product of word values} \times \text{Number of words}}$$

Result $3.1415545 \dots \times 10^{17}$

Pi $3.1415926 \dots$

An approximation of π to 4 decimal places, discounting the 17 zeros after the decimal point. Error about 1 part in 100,000.

Calculating the Number - John 1.1

Εν αρχη ην ο λογος, και ο λογος ην

In the beginning was the word and the word was
55 719 58 70 373 31 70 373 58

προς τον θεον, και θεος ην ο λογος

with - God and God was the word.
450 420 134 31 284 58 70 373

Formula
$$\frac{\text{Product of letter values x Number of letters}}{\text{Product of word values x Number of words}}$$

Result
$$= 2.71831282 \dots \times 10^{40}$$

$$e = 2.71828182 \dots$$

An approximation of e to 3 decimal places, discounting the 40 zeros after the decimal point. Error again about 1 part in 100,000.

Summing Pi and e

The approximations of pi and e derived from scripture are both in error of the true values by about one part in 100,000 (0.001%).

However, one is an underestimate (pi) and the other an overestimate (e). When they are summed the errors almost completely cancel out.

$$\begin{aligned} Pi (G) &= 3.1415545 \dots \\ e (J) &= 2.71831282 \dots \end{aligned}$$

$$\begin{aligned} Pi (G) + e (J) &= \mathbf{5.85986732} \\ Pi + e &= \mathbf{5.85987448} \end{aligned}$$

The error is now reduced to about 1 part in 800,000.

Pi and e in History

Pi and *e* are *transcendental* numbers, the two most important such numbers by a very long margin, underlying all of science.

They can never be completely written out, as this would require an infinite number of digits. Both can only ever be approximated.

Pi has been known to man for at least 4000 years. However, for most of that time it was calculated to only a few decimal places.

The exponential number, *e*, was only discovered **late in the 17th Century**, by Jacob Bernoulli.

Although mathematical numbers, *pi* and *e* underlie most natural processes, encoding these particular numbers in the Bibles' Creation narratives strongly suggests an understanding of their role in nature.

Pi, *e* and the Compilation of the Bible

When Torah was given to Moses on Mount Sinai (ca. 1400 BC), *pi* was only known to 2 or 3 decimal places and *e* was unknown.

When the Leningrad Codex was written (1008 AD), *pi* was known to 6 decimal places in Arabia, *e* was unknown.

When the *Textus Receptus* was compiled (16th Century), *pi* was known to 16 places, *e* was still unknown.

Therefore *e* must have been placed within John 1.1 by supernatural means.

Reasoning backwards, we can be quite confident that *pi* was placed within Genesis 1.1 by the same means, as were the geometric patterns found therein.

Alpha - a Physical Constant

The prologues of Genesis and John are concerned with the creation of the universe by God, who said "Let there be light."

The interaction of light with matter is governed by *alpha*.

$$\alpha = 7.29735257 \times 10^{-3}$$

If we concatenate the values of Genesis 1.1 (2701) and John 1.1 (3627), then square the result, we obtain this number:

$$(27013627)^2 = 7.29736043 \dots \times 10^{14}$$

This number shares the first 5 digits with *alpha* and as an estimate of the constant is accurate to around 1 part in a million.

***Alpha* was totally unknown to man until 100 years ago.**

Pi, e and Alpha

It was shown that if we sum the two estimates of *pi* and *e* derived from scripture the error reduces to about **1 part in 800,000**.

This was because the two numbers were underestimated and overestimated by almost the same tiny amount and, consequently, almost completely cancelled each other out.

If we now sum the significant digits of all three estimates:

$$31415545 \dots + 27183128 \dots + 72973604 \dots = \mathbf{1315722776}$$

and compare with the true sum of **1315722705**,

we see that this combined estimate is correct to eight digits and that the error is now reduced to about **1 part in 18 million**. A small reduction in error can be expected, but this is spectacular.

What are the Chances?

The estimates of π and e are derived from calculations that should give random digits in every column.

3.1415545 and 2.71831

The chances of the first five digits and the first four digits respectively being identical to those of π and e are 1 in $9 \times 10 \times 10 \times 10 \times 10 \times 9 \times 10 \times 10 \times 10$

or 1 in 800 million

The real odds, however, are incalculable. Some factors increase those odds, others decrease them.

Why Genesis 1.1 and John 1.1? These mathematical wonders have not been hidden, but, like the monoliths in *2001: A Space Odyssey*, placed where we would find them, once we were ready.

God's Signature in Genesis 1.1

בראשית ברא אלהים את השמים ואת הארץ

26

23

15

10

9

3

the earth and the heavens

God

created In the beginning

Aleph represents God's silent presence, fatherhood & authority.

The positional values of the alephs in Genesis 1.1 sum to 86.

אלהים (Elohim/God) = 86

The final aleph is in position 26 (*V & W are the same in Hebrew*)

יהוה (YHVH/The Lord) = 26

The Alpha and the Omega

What you have just had but a glimpse into is a cathedral of mathematical glories, erected within Scripture by God Who Is in perfect control of His Creation. He clearly anticipated the modern challenge of “scientific naturalism” **and decisively answered it using the language and findings of science itself millennia before said findings of science were known by man.**

The Bible can indeed be trusted as the foundation of our lives, because it was *watermarked* to prove its authenticity. This mark has now been located, and it confirms many truths such as:

All Scripture is God-breathed and is useful for teaching, rebuking, correcting and training in righteousness, so that the servant of God may be thoroughly equipped for every good work. 2 Tim 3.16

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