

The Chain Tessellations of Genesis 1:1

An Addendum to *THE ULTIMATE ASSERTION* ⁽¹⁾ and *THE SECOND EDGE* ⁽²⁾

Abstract: The status of 2701 per se as ‘one-of-a-kind’ in the infinite sequence of natural numbers is here further elevated by the fact that its absolute appearances as symmetrical arrangements of circular counters includes tessellations which themselves imply further links with its primary source – the Genesis 1:1 number set.

Preamble

We begin with a little history: attention was first drawn to the number 2701 because it marked the opening verse of the Hebrew Scriptures – and the Christian Bible, thus

7	6	5	4	3	2	1
200 90	400 100	300 40	400 10	30 5	200 2	400 300 100 200
אֶרֶץ	וְאֵת	הַשָּׁמַיִם	וְאֵת	אֱלֹהִים	בְּרָא	בְּרֵאשִׁית
earth the	and	heaven the	—	God	created	beginning the In
296	407	395	401	86	203	913

FIGURE 1

Proceeding from right to left, the letters are read as numerals – these defined by the scheme of alphabetic numeration introduced into Jewish society c.200 BC ⁽³⁾. Letter- values appear above the text and their sums below each of the words. The 7-word verse total is 2701.

Concerning the prime numbers 37 and 73 – the factors of 2701 – observe, (1) that they are visually reflective when represented symbolically in the usual manner and, (2) that they are symmetrical and coordinated when expressed absolutely, thus:

4th hexagon/4th hexagram or 3rd hexagram/4th hexagram:

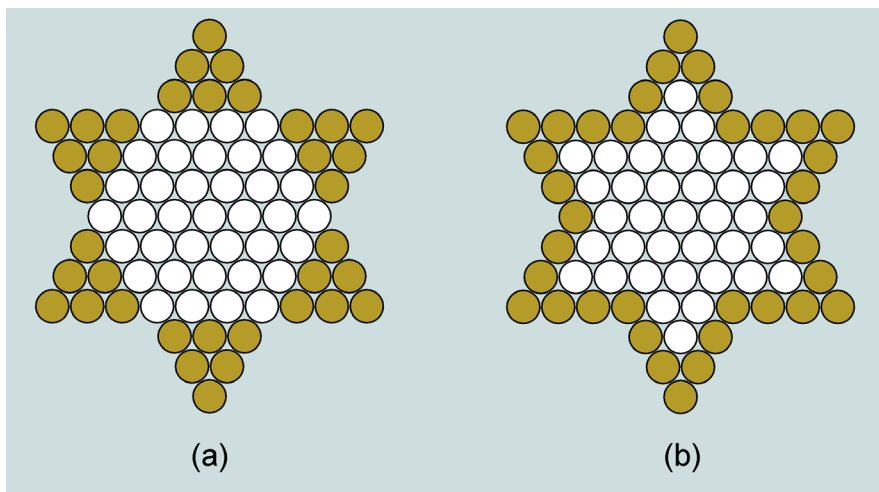


FIGURE 2

These unusual features suggest that 2701 (along with its Hebrew generator Genesis 1:1) are objects of interest to all seekers of truth.

2701 – the product of 37 and 73 – is thus described absolutely by either the 73rd triangular number (A1) or by one of two possible ‘star-of-stars’ arrangements (B1) – in this case, 73 units of 37-as-hexagram, thus

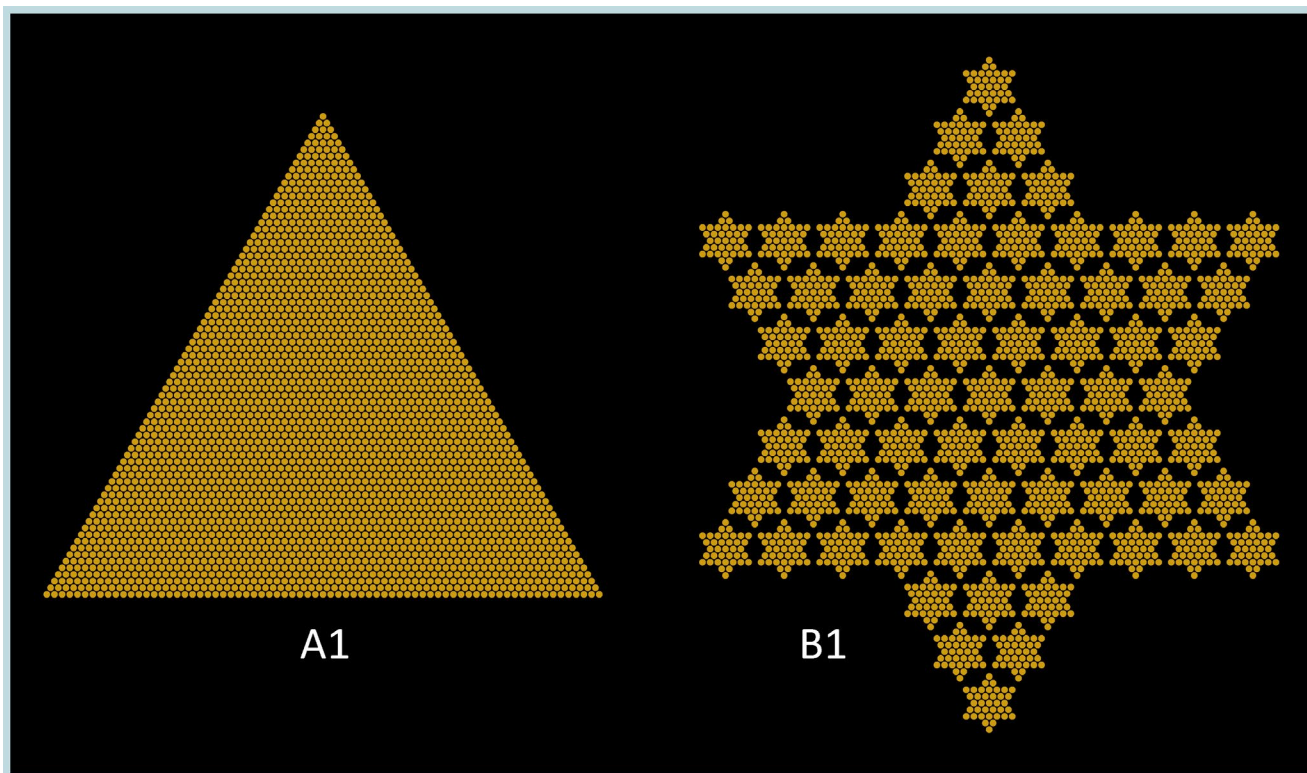


FIGURE 3

Such a combination of features is exceedingly rare; it leads to the understanding that 2701 is ‘one-of-a-kind’ in the infinite series of natural numbers ⁽⁴⁾. Reinforcing that conclusion is the fact that from within the Hebrew of Genesis 1:1 two alternative symmetrical representations of the same number may be derived as tessellations or mosaics. The first has been described as the ‘G-Trefoil’ in the author’s book ⁽⁵⁾ and is based upon the 8th hexagon/hexagram pair 169/337; the second – a series of chain tessellations (based upon the hexagon/hexagram pair 19/37 – prime factors of the 37th triangle 703) – are set out in the following pages.

A Fair Exchange

Considering 2701 as the ‘star-of-stars’ B1, observe that symmetrically positioned at the centre is a hexagon of 19 of the same units representing 703 (Figure 4a) – sum of words 6 and 7, rendered ‘and the earth’. This hexagon is now removed (Figure 4b) and replaced by a hexagon comprising 37 units of 19. Figure 5 details the exchange.

$$\text{Check: } 73 \times 37 = (73 - 19) \times 37 + 37 \times 19 = 54 \times 37 + 37 \times 19 = 2701$$

Thus, the sum 2701 may be realised by combining 54 of the hexagrams (i.e. 37s) with 37 of the hexagons of 19 – in the manner represented in Figure 6.

The principle involved in the tessellations that follow is depicted in Figure 7.

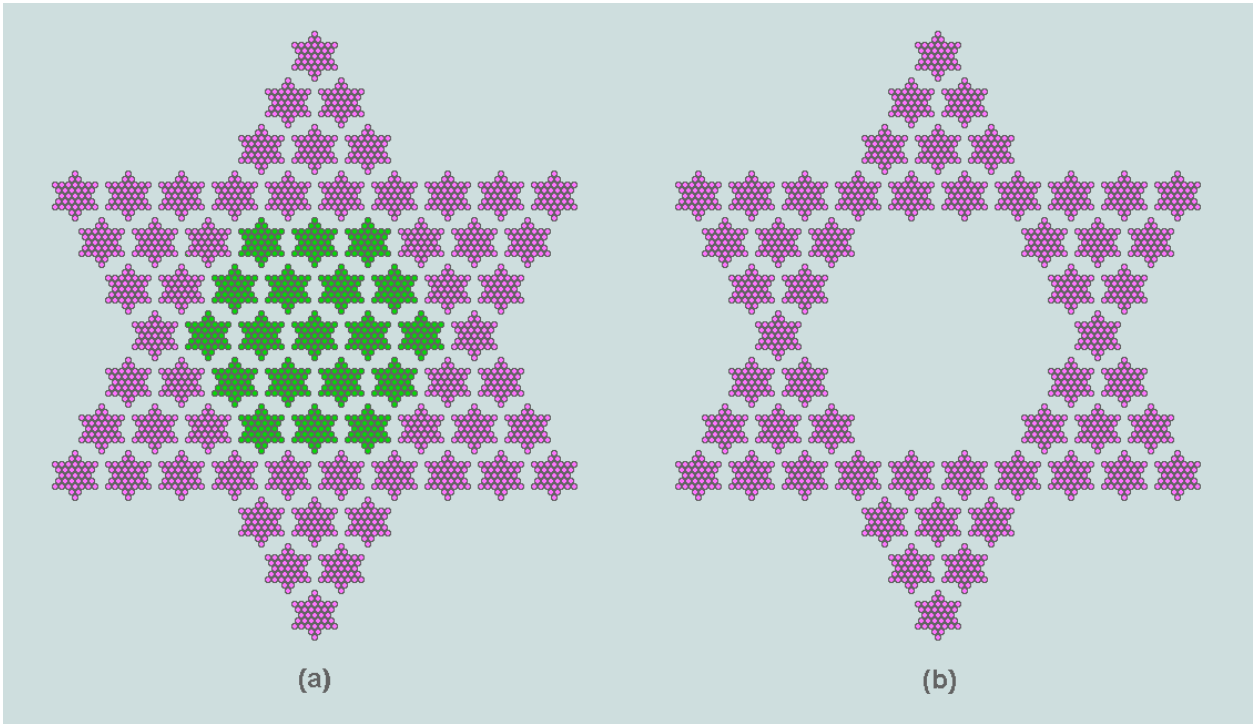


FIGURE 4

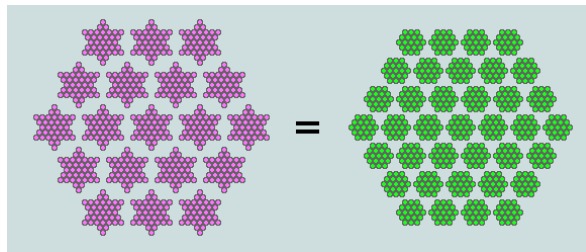


FIGURE 5

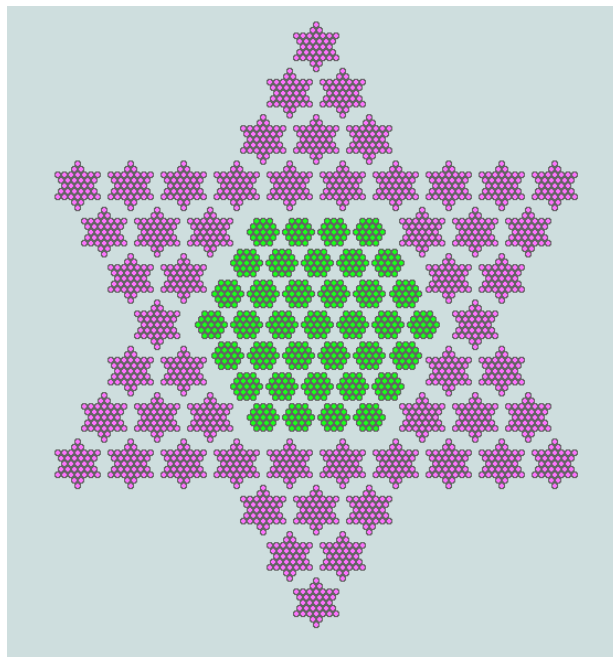


FIGURE 6

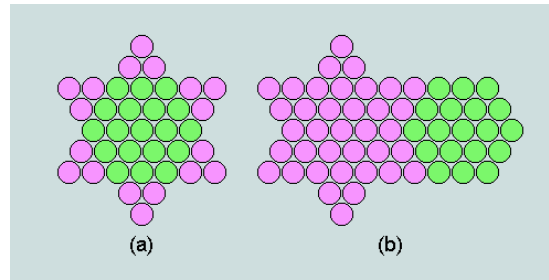


FIGURE 7

2701 as a Chain Tessellation

But how can one combine 54 hexagrams (the 'pinks') with 37 hexagons (the 'greens') to build a symmetrical picture of 2701 and the Bible's first verse? Here is one possible solution:

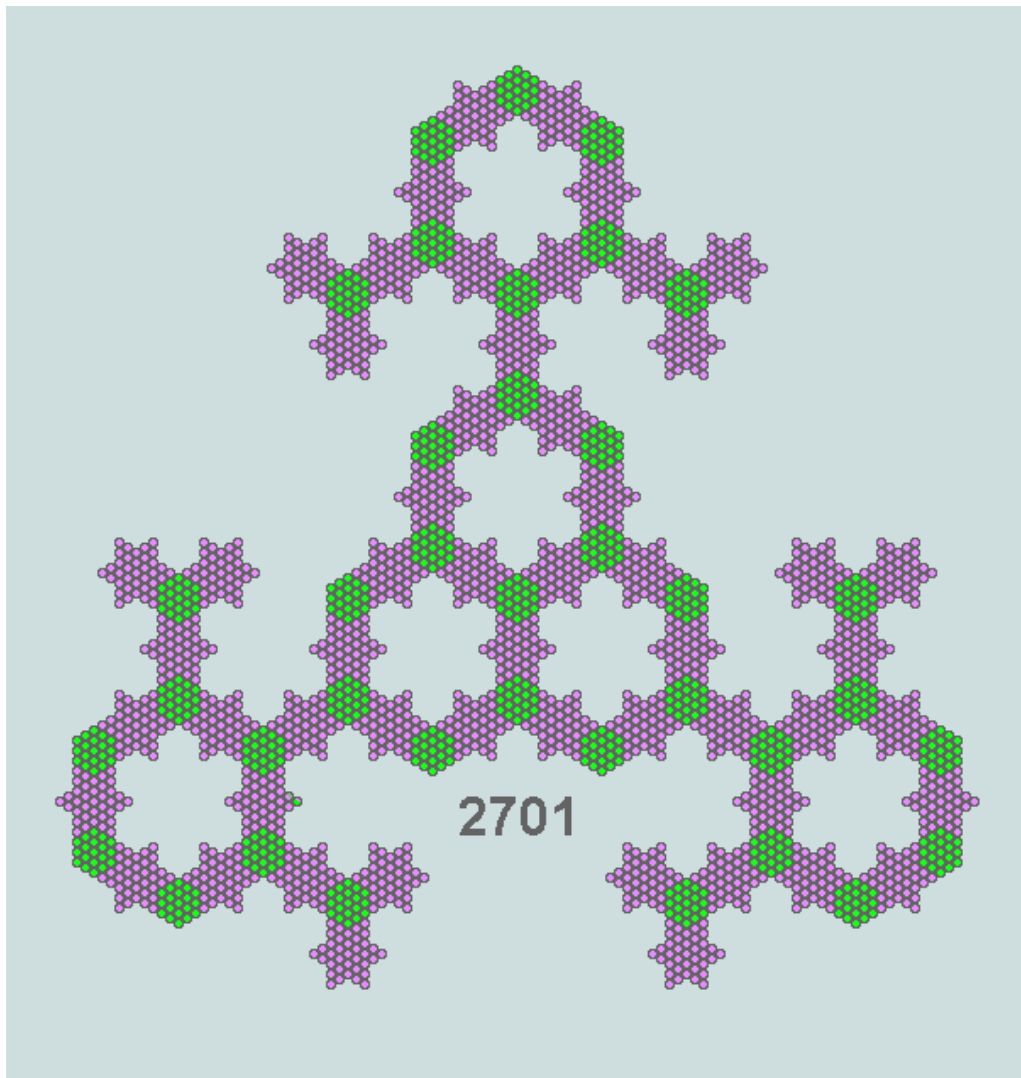


FIGURE 8

Here the greens total 37 and the pinks 54 ; hence the total of counters is

$$(37 \times 19) + (54 \times 37) = 2701$$

Observe the rotational symmetry of this figure. Here is yet another way of depicting the Bible's first verse.

913 as the centre of this arrangement

Figure 9 reveals that the Bible's FIRST WORD forms the centre of this structure.

Check:

Number of greens = 13; number of pinks = 18. Hence, total of counters represented

$$= (13 \times 19) + (18 \times 37) = 247 + 666 = 913$$

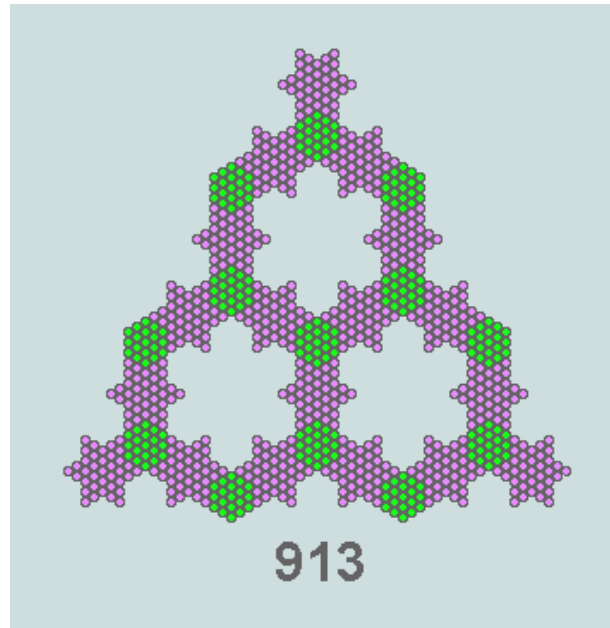


FIGURE 9

Stripped of its outer three hexagrams this reduces to 802 - the double of 401, CENTRAL WORD of the verse, and sum of words 5 and 6.

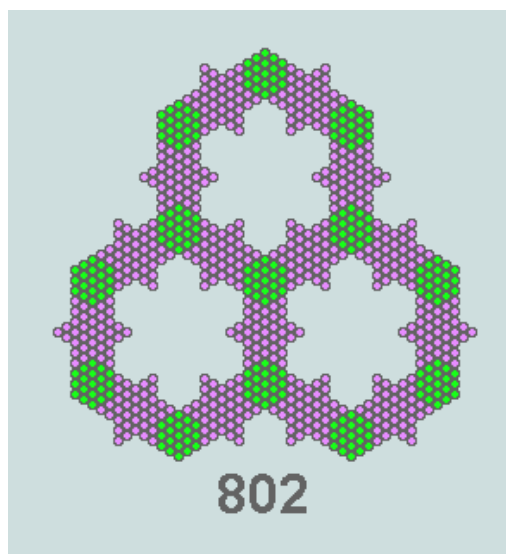


FIGURE 10

Alternatively, removing its central element (= 19) we are left with 894 which equals $203 + 395 + 296$ (i.e. words 2, 5 and 7) or $86 + 401 + 407$ (i.e. words 3, 4 and 6).

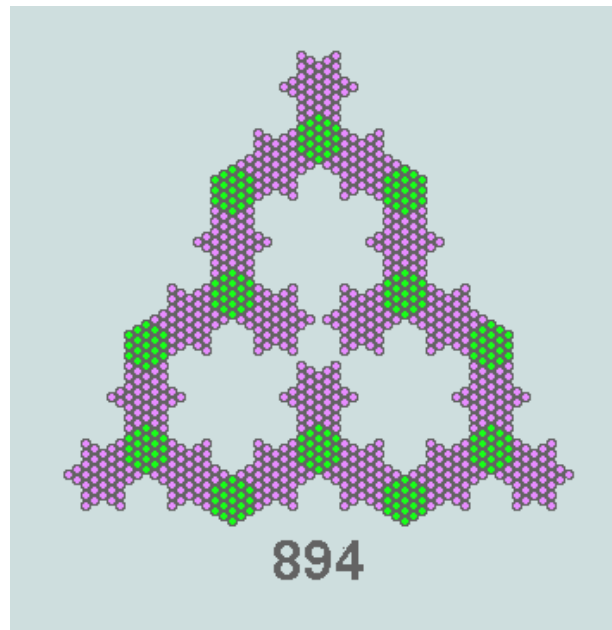


FIGURE 1 1

The following diagram therefore depicts this symmetrical numerical division of the verse:

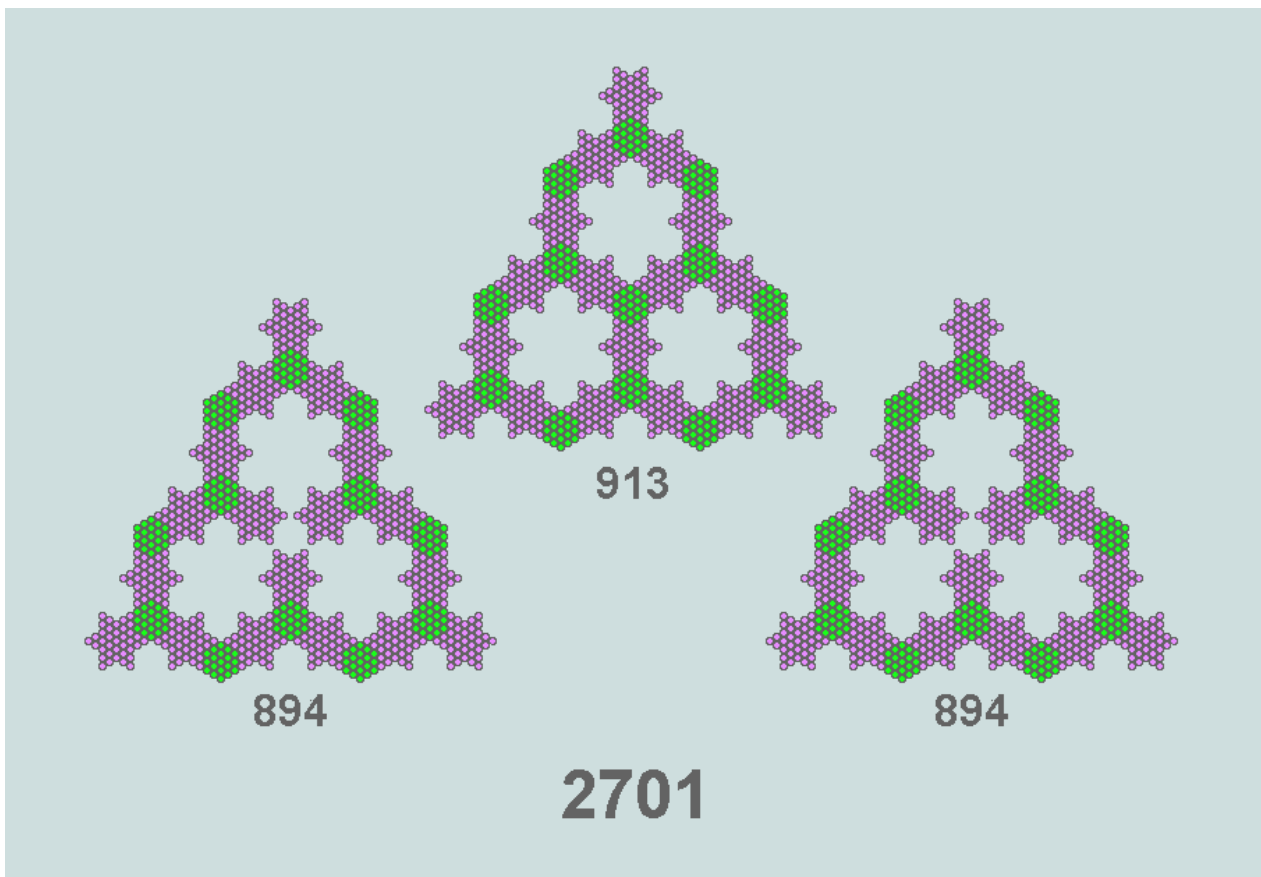


FIGURE 1 2

1788 as the value of the 3 outliers

Here is a representation of the sum of words 2 to 7 of Genesis 1:1. Observe that each of the three outer segments is 596, or 2×298 – 298 being the ordinal value (i.e. that based upon the position of each letter within the alphabet) of the complete verse.

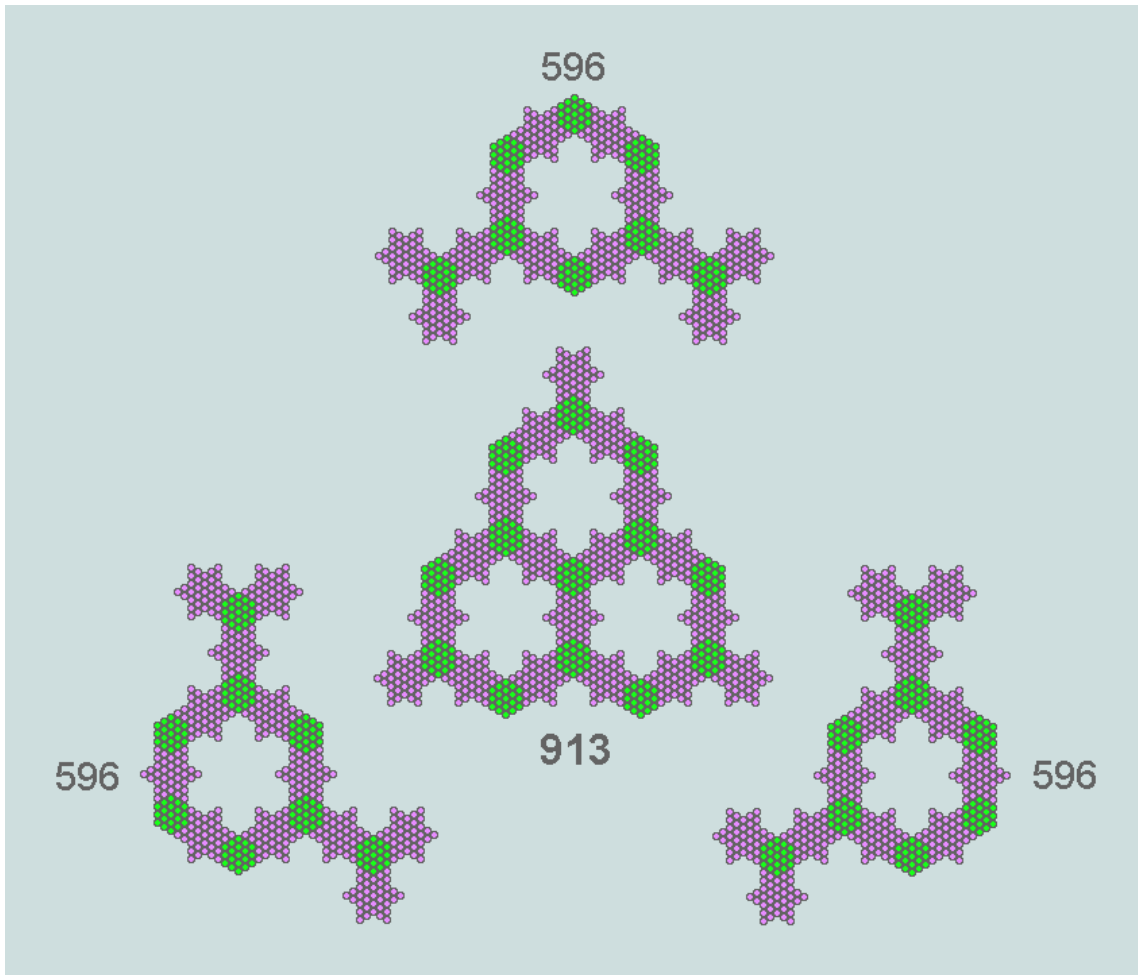


FIGURE 13

The derivation of this ORDINAL sum is shown below; each letter value marks its position in the 22-letter Hebrew alphabet.

7	6	5	4	3	2	1
18 20 1 5	22 1 6	13 10 13 21 5	22 1 13 10 5 12 1	1 20 2	22 10 21 1 20 2	
הארץ:	ואת	השמים	את	אלהים	ברא	בראשית
earth the	and	heaven the	—	God	created	beginning the In
44	29	62	23	41	23	76

FIGURE 14

The total: $76 + 23 + 41 + 23 + 62 + 29 + 44 = 298$

Depicting the Creator

Here is the Creator's Name as it is rendered in the Greek of the New Testament:

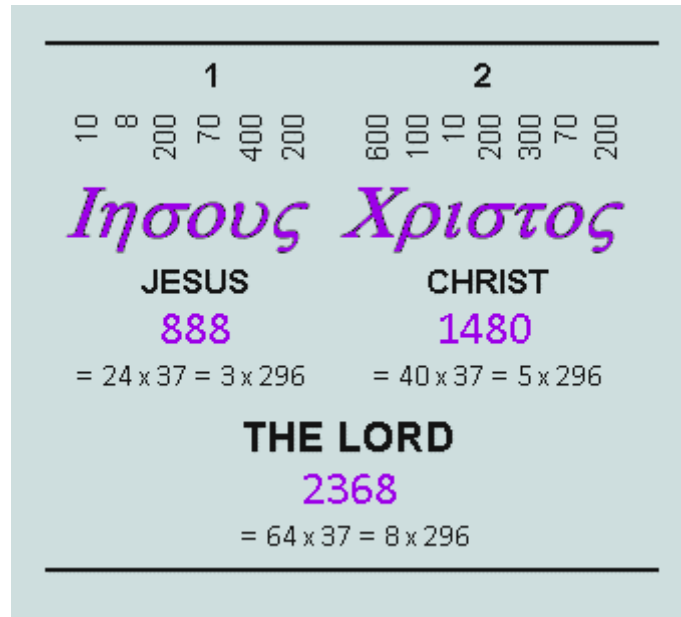


FIGURE 15

Again, because the difference between Creation (as represented by 2701) and Creator (as represented by 2368 – Jesus Christ) is 333 (or 9×37), the removal of 3 hexagrams from each of the 3 outer parts of Figure 13, followed by some rearrangement, reveals a symmetrical tessellated view of the Creator – 913, 802 and 894 again being central elements.

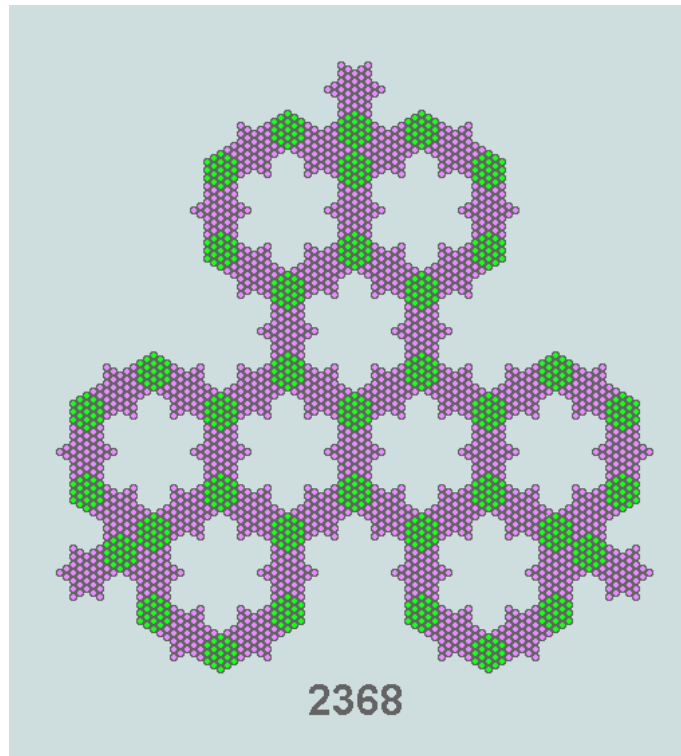


FIGURE 16

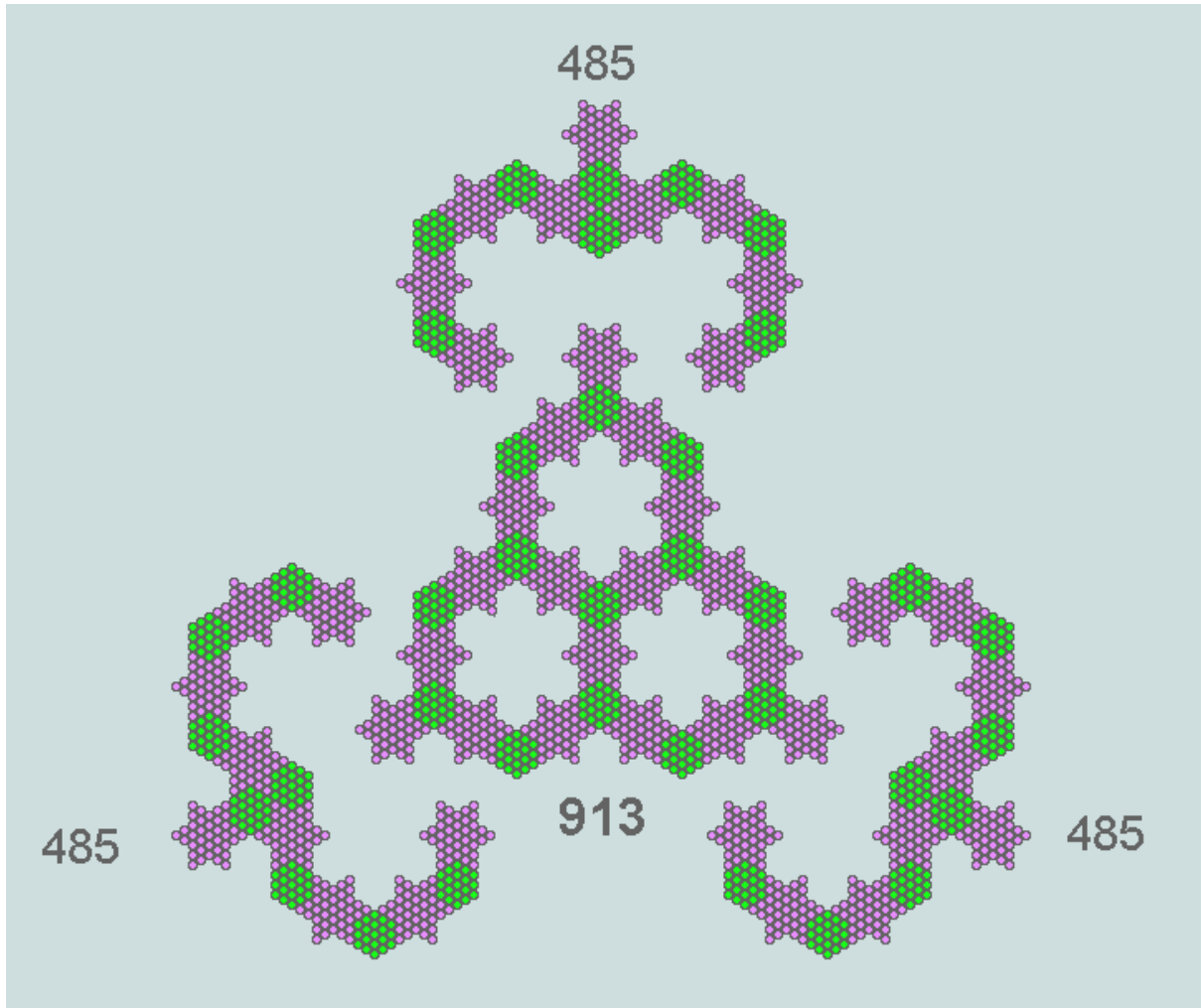


FIGURE 17

Logos or Word

The same numerical geometries 19 and 37, may be used to construct a tessellated representation of 'Logos' or 'Word' (which occurs three times in John 1:1⁽⁶⁾). The number associated with *WORD* is $373 = (6 \times 19) + (7 \times 37)$, i.e. 6 hexagons plus 7 hexagrams, thus

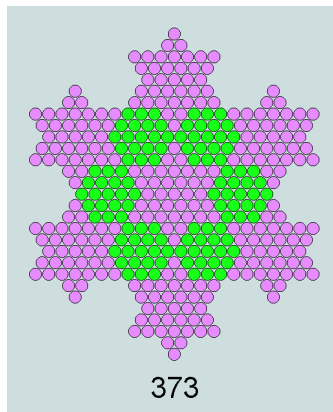


FIGURE 18

Summary

It is appropriate that we remember that the one legitimate method of converting Hebrew words to numbers was introduced a millennium or so after the words of Torah (the Bible's first 5 Books) were dictated to Moses. That fact alone qualifies Genesis 1:1 as a supernatural example of Intelligent Design.

Some features of the foregoing analyses are these:

- The 3-rotational symmetries are elegant and beautiful;
- The dual-figurate nature of 37 is key;
- 913 – the Bible's first word – plays a prominent role in the proceedings as central element to both 2701 (Creation) and 2368 (Creator);
- The hexagonal rings are remarkably reminiscent of the cyclic structures found in the formulae of the organic chemist; again, the cross-section of a honeycomb is suggested.

Conclusion

The foregoing material joins a growing gallery of pictures which confirms the miraculous nature of the opening words of the Judeo-Christian Scriptures. Genesis 1:1 – a powerful, fundamental and strategically placed assertion and one-of-a-kind number – was surely intended to catch the eye of all seekers of truth. In our day, we may observe that truth is rapidly becoming an exceedingly precious commodity; now, with 100% certainty, we may claim God's Word to man – the Bible – to be the source of all Truth and our only sure guide in this life.

Footnotes

- (1) Refers to the author's peer-reviewed paper *The Ultimate Assertion: Evidence of Supernatural Design in the Divine Prologue* (Creation Ex Nihilo Tech. J., vol.7(2), 1993, pp.184-196) - now updated and available at both Academia.org. and www.whatabeginning.com/Academia.pdf
- (2) Refers to the author's book *The Second Edge: A Role for Numerical Coincidence in the Pursuit of Truth* (abbreviated 'SE') – this book may be freely downloaded from www.whatabeginning.com/book.pdf
- (3) SE, p.15
- (4) SE Appendix 3, pp.143-145
- (5) SE, pp.45-48
- (6) SE, pp.62-63

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“The secret things belong unto the Lord our God: but those things which are revealed belong unto us and to our children forever, that we may do all the words of this law.” (Deut.29:29)