

## The Index of an Index

Sometimes Quran Suras and their number of verses are related through a number which is the index of a prime or a composite. This number's index generates another sura number and its number of verses.

Let us look at the number 2882. This number is the index of prime number 26227. We note that sura 26 has 227 verses. Now the composite 2882 has an index of 2464. We immediately note that sura 24 has 64 verses. Further investigation of 2882 reveals that verse 28:82 in the Quran is the 1998<sup>th</sup> verse in the revelation order. We note that sura 19 has 98 verses.

2464 is a sept-prime, i.e.  $2464 = 2 \times 2 \times 2 \times 2 \times 2 \times 7 \times 11$ . There are 42 ways we can concatenate these numbers and there are many other ways we can arrange these numbers as multiples of two and the rest, or three and the rest or so on. For example, we can have 4, 2, 2, 2, 7, 11, which generates  $6!/(1! \times 1! \times 1! \times 1! \times 3!) = 120$  numbers. Another way of arranging them would be the multiple of two numbers, 28 and 88 ( $28 \times 88 = 2464$ ), that when concatenated it would become 2888. Note, sura 28 has 88 verses. So this connects sura 24 to sura 28 through the following math problem.

**Problem: Take a 4-digit number that has 7 prime factors. Find a number made up of the concatenation of these factors or any multiples of these factors that can itself be factored into the square of a prime and its index.**

Answer: 2464 and 2888.

Note,  $2888 = 19 \times 19 \times 8$ , i.e. a square of a prime multiplied by its index.

## Ultimate Mathematics, 114 and Sura 74

The 114<sup>th</sup> prime number is 619 and the 619<sup>th</sup> prime number is 4567. The 19<sup>th</sup> permutation of 4567 is 7456 and sura 74 has 56 verses. Note that sura 74 is the only sura where the number 19 is mentioned and it is mentioned in verse 30. Note, 30 is the 19<sup>th</sup> composite.

The index of composite 7456 is 6512 and sura 65 has 12 verses. In sura 65, verse 8 is the reference to the "Ultimate Mathematics". Note 8 is the index of prime number 19.

One will also note that the 658<sup>th</sup> composite is 798 and that 798 is the sum of the frequencies of initials K.H.Y.A.S. in sura 19.

6512 is the 23<sup>rd</sup> permutation of 1256 and 7456 is the 19<sup>th</sup> permutation of 4567 and 2319 is the 1974<sup>th</sup> composite and sura 74 is where the number 19 is mentioned.

**Ultimate Mathematics generates the number of verses in Suras 9, 19, 50 and 104**

The 9<sup>th</sup> prime number is 23 and the 9<sup>th</sup> TPC is 102. These are the factors of 2346, i.e.  $23 \times 102 = 2346$ . The number of verses from 1:1 to the end of sura 19, i.e. 19:98 is exactly 2346 and the index of the composite 2346 is 1998 and sura 19 has 98 verses. There are two ways to concatenate 23 and 102: 10223 and 23102. The first number 10223 is a prime number and its index is 1254. The number  $1254 = 19 \times 66$  is the number of frequency of initials A.L.M. in sura 30. Note 30 is the 19<sup>th</sup> composite and  $(1254)_{10} = (2346)_8$ . The second number 23102 is the 5808<sup>th</sup> semi-prime and the index of composite 5808 is 5045 and sura 50 has 45 verses.

The index of composite 1254 is 1049 and sura 104 has 9 verses.

The index of the prime number 23 is 9 and the number  $102 = 2 \times 3 \times 17$  where the indices of the factors 2, 3, and 17 are 1, 2, and 7. This generates 127 verses for sura 9. Note that the 19<sup>th</sup> permutation of 2346 is 6234 and 6234 is the total number of numbered verses in the Quran.

### **Ultimate Mathematics generates the number of verses in sura 103**

The number of verses from 1:1 to 96:19 is 6123 which is the 19<sup>th</sup> permutation of 1236. Note that sura 96 is the first sura revealed which makes 96:19 the 19<sup>th</sup> revealed verse. The number, 1236 is the number of verses from the 1:1 to 9:1 and its index is 1033. Note sura 103 has 3 verses.

The 4<sup>th</sup> permutation of 1236 is 1362. This is also noteworthy as it is the number of verses from 1:1 to 9:127. The index of the composite 1362 is 1143 and  $1143 = 9 \times 127$  and sura 9 has 127 verses. If you consider the number 1236 written in octal and convert it to base 10 or decimal it would be 670. This number, 670, is the number of verses from 1: 1 to 9:127 in the un-initialed suras of the Quran.

The 9<sup>th</sup> permutation of 1236 is 2316. This number, 2316, is a concatenation of 23 and 16. These two numbers, 23 and 16, are the 9<sup>th</sup> prime and composite, respectively. These two numbers are also the factors of 368, i.e.,  $23 \times 16 = 368$ . The number 368 is the sum of the frequencies of the initials H.M. is sura 43.

1033 is the index of the lonely prime 12739. This number is a concatenation of 1273 and 9. Note the frequency of the word "God" from 1:1 to 9:127 is 1273 and the number 9 tells the sura number.

## Ultimate Mathematics generates the number of verses is sura 89 and many more parameters of the Quran

The following table shows the 19<sup>th</sup> prime, composite, semi-prime and tri-prime.

Index	Prime	Composite	Semi-prime	Tri-prime
19	67	30	55	78

A quick glance at this table tells us

- Sura 67 has 30 verses
- Sura 55 has 78 verses.
- $19 \times 67 = 1273$  is the number of the word God from 1:1 to 9:127.
- $19 \times 78 = 1482$  is the sum of the frequencies of the initials A.L.M.R. in sura 13.
- $19 \times 55 = 1045$  is the sum of the frequencies of the initials H.M. in suras 41, 42, and 43.
- $19 \times 30 = 570$  is the sum of the frequencies of the initials A.L.M. in sura 32, and sura 342 has 30 verses.
- 5519 is the index of 6346. 6346 is the total number of verses in the Quran including the 112 un-numbered opening statements.
- Verse 55:19 is the 1273<sup>rd</sup> prime-numbered verse from the beginning of the Quran, and 1273 is the number of the word God from 1:1 to 9:127.
- Verse 55:19 is the 4918<sup>th</sup> verse from the beginning of the Quran and sura 49 has 18 verses.
- The index of composite 1955 is 1657 and 1657 in base 19 is equal to 9127 in base 10. Sura 9 has 127 verses.
- 7819 is the index of 8930 and sura 89 has 30 verses.
- The following relations between 8930 and its index 7819 generates more parameters of the Quran:  
 $8930 - 7819 = 1111$

The verse 11:11 is the 1482<sup>nd</sup> verse from the beginning of the Quran and 1482 is the number of initials A.L.M.R. in sura 13. Note,  $78 \times 19 = 1482$ . Verse 11:11 is also the 812<sup>th</sup> verse in the initialed suras and the index of the composite 812 is 670. Verse 9:127 is the 670<sup>th</sup> verse in the un-initialed suras. Note,  $670 + 812 = 1482$ .

From 9:1 to the end of sura 19, i.e. 19:98 there are 1111 verses. From 9:1 to verse 23:46, there are 1482 verses. Note, verse 19:98 is the 2346<sup>th</sup> verse from the beginning of the Quran and the index of composite 2346 is 1998.

- From 13:1 to 27:30, there are 1482 verses. Note, 27:30 is where sura 9's missing opening statement is compensated and sura 27 is the 13<sup>th</sup> initial sura. Furthermore, verse 13:1 is the initials of the sura 13 and, as mentioned above, the frequency of their usage in sura 13 is 1482.
- The number 1482 is the 49<sup>th</sup> Twin Prime Companion (TPC) and 2730 is the 78<sup>th</sup> TPC. Sura 78 is the 49<sup>th</sup> un-initialed sura in the Quran. Sura 49 is the 22<sup>nd</sup> un-initialed sura in the Quran and sura 22 has 78 verses.
- The index of composite 1482 is  $1247 = 29 \times 43$ . Note, the 29<sup>th</sup> initialed sura revealed is sura 13 and it has 43 verses.
- Sura 13 is the 7<sup>th</sup> initial sura in the Quran and the 7<sup>th</sup> permutation of 1247 is 2147 which is the frequency of the initials H.M. in the 7 H.M.-initialed suras 40 through 46.
- The 19<sup>th</sup> permutation of 1247 is 7124 and the index of composite 7124 is 6211 and sura 62 has 11 verses. Verse 71:24 is the 2698<sup>th</sup> verse in the un-initialed suras and 2698 is the number of the word God in the Quran. Verse 71:24 is also the 1824<sup>th</sup> verse revealed in the un-initialed suras. Note,  $1824 = 96 \times 19$ , and sura 96 has 19 verses. Note sura 96 is the first sura revealed.

Remember the above physical facts are "eternal" because of timeless fundamental relations among numbers. These are the generators of the Quran.