

## TOWARDS EXPLORING MATHEMATICAL FACTS OF SURAH AL-KAWTHAR, THE SMALLEST CHAPTER OF THE HOLY QUR'AN

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### ABSTRACT

In this study an attempt for understanding a few mathematical facts of a Qur'anic Chapter (i.e. *sūrah*) is made. The attempt is the combination of both Abjad and Non-abjad approach. For the purpose of this paper, the 108<sup>th</sup> *sūrah* of the holy Qur'an- *sūrah* Al-Kawthar is selected. This is the shortest of the 114 *sūrahs* of the Qur'an. The main aim is to see whether there is any mathematical patterns in the *sūrah* that reveals uniqueness of the holy book. A possible analysis is done based on very simple and common mathematical operations such as 'addition', 'subtraction', 'multiplication', and 'division'. Some astonishing outcomes have been discovered which indicates not only the singularity of the *sūrah* but also proves the impossibility of any human intervention in the Qur'an. These amazing conclusions are derived by human efforts, which are not conclusive, and the Qur'an al-Karim is not in need of such discoveries to prove that it is a divine sacred text. The main purpose of the Qur'an is to guide all mankind towards a blessed and blissful life in this worldly life and also eternal life in hereafter.

**Key words:** Surah Kawthar, Addition, Subtraction, Multiplication, Division.

### 1. INTRODUCTION

The Qur'an is the primary source of guidance in Islam. Allah, the Almighty, has gradually revealed the Qur'an, to the last Prophet (May peace be upon him) in 23 years. Allah also took it upon Himself to safeguard this Book as we see in *sūrah* al-Hijr of the Qur'an, which reads: "Indeed, it is We Who sent down the Qur'an and indeed, We will be its guardian."<sup>1</sup> This is true both in the perspective of the book in its totality as well as any part of it. In several instances Allah SWT also challenged the Arabs and all humanity at all time to create a book like this.<sup>2</sup> From the beginning the Qur'an was considered as a source of knowledge and research. This was because the uniqueness and truthfulness of al-Qur'an was confirmed by all branches of knowledge such as history, astronomy, medicine, physics, chemistry, law, sociology, and many more. Taslaman has outlayed a few examples in his book and suggested that Mathematics have

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<sup>1</sup> Al-Qur'an, al-Hijr: 15:9.

<sup>2</sup> See Al-Qur'an, al-Isra': 17:88.

been employed by researchers analyzing the Qur'an.<sup>3</sup> 'The theory of 19' by Rashid Khalifa was probably the first established contribution.<sup>4</sup> Apart from his personal attitude, his research initiated further analysis. As time passed, with the advancement of modern computing facility his research was pursued by other scholars. As a result, there were new discoveries such as the miraculous existence of the number '7', golden ratio, symmetry, primes, stylistic and mathematical miracles, etc in the Qur'an continue to astonish Muslim scholars as well as the world. The objective is to prove that it is impossible for other than Allah to 'devise' the Qur'an.<sup>5</sup> In other words, the text of the Qur'an is organized into 114 chapters through divine order and arrangement.<sup>6</sup>

In the current study, the interest is focused on the smallest chapter of the Qur'an, Sūrah- al-Kawthar. A sample of the *sūrah* is presented in **Figure 1** copied directly from the Uthmānī script of the Qur'an.<sup>7</sup>

## 2. METHODOLOGY

Both *abjad* and *non-abjad* based calculations in the form of addition, subtraction, multiplication, division, etc was made in this research paper in pursuit to discover any kind of patterns. Many researchers have used *abjad* based calculations in their research and it proved to be the most suitable.<sup>8</sup> In **Table 1**, the *abjad* values of the 28 alphabets of the Arabic language is presented. These values are used in the mathematical calculations related to Sūrah al-Kawthar in the later sections. Also *non-abjad* based calculation is also presented.

**Table 1:** Abjad (Gematrinal) values of the 28 alphabets of the Arabic language

<sup>3</sup> Caner Taslaman, *The Quran Unchallengeable Miracle*, Nettleberry / Çitlembik Publications, ISBN: 975-6663-94-4, 2006

<sup>4</sup> Rashad Khalifa, *Miracle Of The Quran: Significance of the Mysterious Alphabets*, Islamic Productions, St. Louis, Missouri. See also Rashad Khalifa, *The Computer Speaks: God's Message to the World*. Renaissance Productions International..

<sup>5</sup> Dr. Al-Kaheel. *Ishraqat al-Raqam Sab'a fial-Qur'an al-Karim*. Dubai: Dubai International Holy Quran Award. Available online at [www.kaheel7.com](http://www.kaheel7.com); see also, Al-Kaheel, *Secrets of Quran Miracle\_ some basic guidelines to numeric miracle*. Available online at [www.kaheel7.com](http://www.kaheel7.com); and <http://www.heliwave.com> (accessed June 2022).

<sup>6</sup> A. R. Yauri, R. A. Kadir, A. Azman, , & M. A. A. Murad, Quranic-based concepts: Verse relations extraction using Manchester OWL syntax. In *Information Retrieval & Knowledge Management (CAMP)*, International Conference on Information Retrieval & Knowledge Management. See also, H. Almujaalli, The Relationship between the Prophet Muhammad and the Quran. *Journal of Islamic Studies*, 2(4), 01-05; B. H. Aboul-Enein, Health-promoting verses as mentioned in the Holy Quran. *Journal of religion and health*, 55(3), 821-829.

<sup>7</sup> <https://imnasution.files.wordpress.com/2013/08/mushaf-madinah.pdf>, (Last visited at June 2022)

<sup>8</sup> K. M. Al-Faqih, A mathematical phenomenon in the Quran of earth-shattering proportions: A Quranic theory based on gematria determining Quran primary statistics (words, verses, chapters) and revealing its fascinating connection with the golden ratio. *Journal of Arts and Humanities*, 6(6), 52-73; See also, D. Esad and K. Lutvo, *Qur'an Stylistic And Mathematical Miracle*, ISBN 978-9958-625-44-2.

ḥarf	Gematrical values	ḥarf	Gematrical values	ḥarf	Gematrical values
ا	1	ك	20	ر	200
ب	2	ل	30	ش	300
ج	3	م	40	ت	400
د	4	ن	50	ث	500
هـ	5	س	60	خ	600
و	6	ع	70	ذ	700
ز	7	ف	80	ض	800
ح	8	ص	90	ظ	900
ط	9	ق	100	غ	1000
ي	10	--	--	--	--

### 3. RESULTS AND DISCUSSIONS

Table 2: Abjad numbering of 1<sup>st</sup> ayat

Arabic alphabet	Numerical value
ا	1
ن	50
ا	1
ا	1
ع	70
ط	9
ي	10
ن	50
ك	20
ا	1
ل	30
ك	20
و	6
ث	500
ر	200
<b>Total</b>	<b>969</b>

Table 3: Abjad numbering of 2<sup>nd</sup> ayat

Arabic alphabet	Numerical value
ف	80
ص	90
ل	30
ل	30
ر	200
ب	2
ك	20
و	6
ا	1
ن	50
ح	8
ر	200
<b>Total</b>	<b>717</b>

Table 4: Abjad numbering of 3<sup>rd</sup> ayat

Arabic alphabet	Numerical value
ا	1
ن	50
ش	300
ا	1
ن	50
ء	1
ك	20
هـ	5
و	6
ا	1
ل	30
ا	1
ب	2
ت	400
ر	200
<b>Total</b>	<b>1068</b>

إِنَّا أَنْعَمْنَاكَ الْكَوْثَرَ  
فَصَلِّ لِرَبِّكَ وَأَنْحَرْ  
إِنَّ شَانِئَكَ هُوَ الْأَبْتَرُ

Figure 1: Sūrah Al-Kawthar, copied from the holy Qur'an

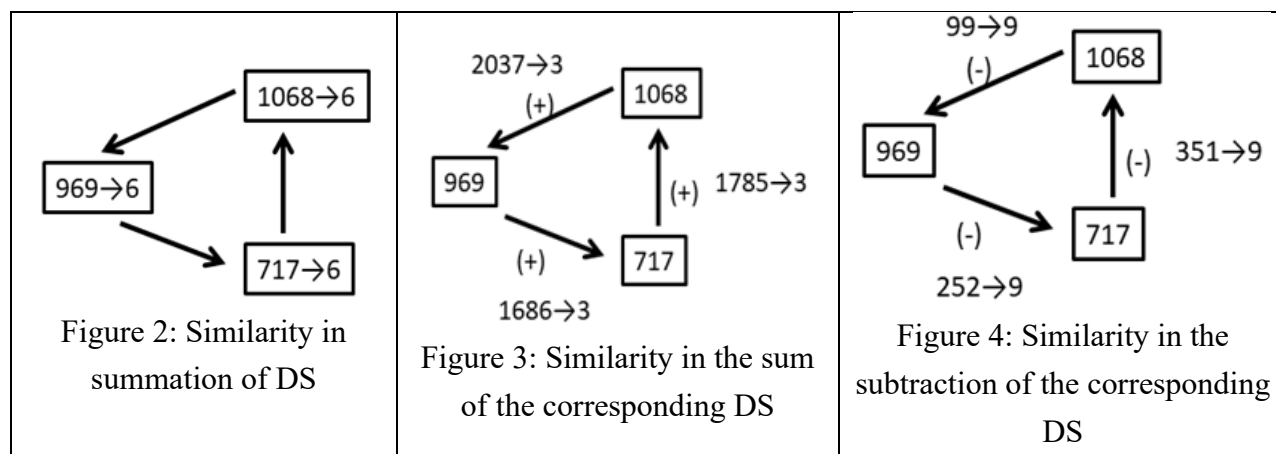
Note:

- I. In *abjad* value, both "alif" and "hamza" have the same value of 1.<sup>9</sup> The Arabic alphabet comprises 29 letters. However, in the Abecedarian alphabet there are 28 because there is no difference between Hamza and Alif.<sup>10</sup>
- II. In the calculation of Table 2, 3 and 4 all the *harfs* (i.e.  $\text{ح}$  in 1<sup>st</sup> Ayat,  $\text{ج}$  and  $\text{ب}$  in 2<sup>nd</sup> Ayat,  $\text{ح}$  in 3<sup>rd</sup> Ayat) having *Shaddah* (i.e. *tashdid*) are considered one *harf*, as per appearance (please see related calculation in the Point- 30).

Sūrah Kawthar has three (03) verses. In Table 1 the alphabets (i.e Arabic *harf*) and the *abjad* values of verse 1 is presented one by one. The same is done in Table 2 and 3 for the second and third verses. In the following section some patterns are presented:

- 1) *Digit sum (DS)*: The digit sum (DS) of the verses are 969, 717 and 1068. All of them are divisible by 3.
- 2) *Similarity in DS of DS*: The DS of the DS of all the three verses are found to be the same, as shown in **Figure 2**.

- $969 \rightarrow 9+6+9 \rightarrow 24 \rightarrow 2+4=6$  (also divisible by 3)
- $717 \rightarrow 7+1+7 \rightarrow 15 \rightarrow 1+5=6$  (also divisible by 3)
- $1068 \rightarrow 1+0+6+8 \rightarrow 15=6$  (also divisible by 3)



- 3) *Similarity in the sum of the corresponding DS*: The summation of DS of the first two verses is 1686. The DS of 1686 is 3. Interestingly the DS of the rest two cases are also 3, as shown in **Figure 3**.

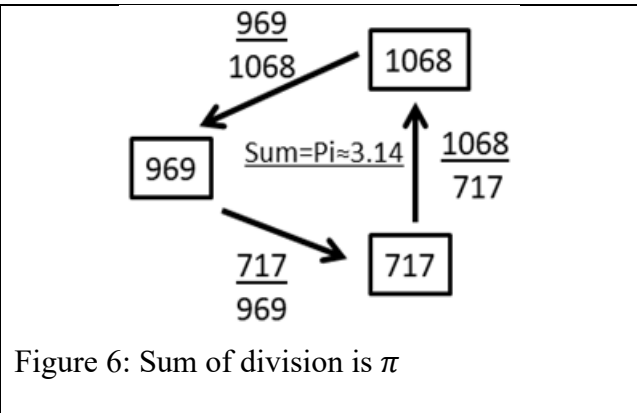
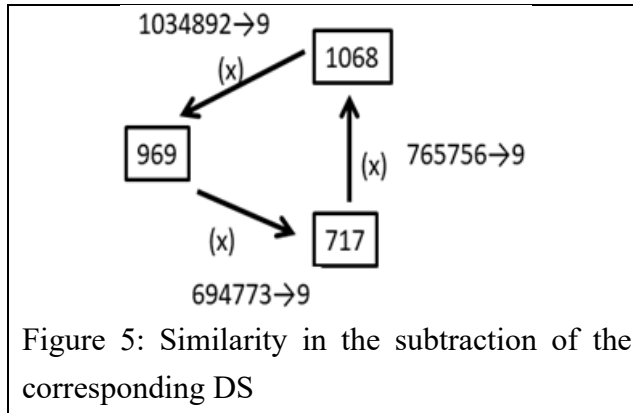
<sup>9</sup> <https://charactercalculator.com/abjad-calculator>, Last accessed at 08/10/22

<sup>10</sup> <https://www.answering-christianity.com/fakir60/gematria.htm>, Last accessed at 08/10/22.

- $969+717=1686 \rightarrow 1+6+8+6 \rightarrow 21 \rightarrow 2+1=3$
- $1686 = 2 \times 3 \times 281$
- $717+1068=1785 \rightarrow 1+7+8+5 \rightarrow 21 \rightarrow 2+1=3$
- $1785 = 3 \times 5 \times 7 \times 17$
- $1068+969=2037 \rightarrow 2+0+3+7 \rightarrow 12 \rightarrow 1+2=3$
- $2037 = 3 \times 7 \times 97$

4) *Similarity in the subtraction of the corresponding DS*: The difference of the first two corresponding verses is  $969-717=252$ . The DS of 252 is 9. Similar outcome is also applicable for the reset two cases, as shown in **Figure 4**.

- $969-717=252 \rightarrow 2+5+2=9$  (divisible by 3)
- $717-1068=|351| \rightarrow 3+5+1=9$  (divisible by 3)
- $1068-969=99 \rightarrow 9+9=18 \rightarrow 1+8=9$  (divisible by 3)
- $252 = 2 \times 2 \times 3 \times 3 \times 7$
- $351 = 3 \times 3 \times 3 \times 13$
- $99 = 3 \times 3 \times 11$



5) *Similarity in DS of multiplication*: The number 694773 is got from the multiplication of the DSs 969 and 717. The Ds of 694773 is 9. The other two values 765756 and 1034892 have also the same output, as shown in **Figure 5**.

- $969 \times 717 = 694773 \rightarrow 6+9+4+7+7+3=36 \rightarrow 3+6=9$  (divisible by 3)
- $694773 = 3 \times 3 \times 17 \times 19 \times 239$
- $717 \times 1068 = 765756 \rightarrow 7+6+5+7+5+6=36 \rightarrow 3+6=9$  (divisible by 3)
- $765756 = 2 \times 2 \times 3 \times 3 \times 89 \times 239$
- $1068 \times 969 = 1034892 \rightarrow 1+0+3+4+8+9+2=27 \rightarrow 2+7=9$  (divisible by 3)
- $1034892 = 2 \times 2 \times 3 \times 3 \times 107 \times 271$

6) *Existence of  $\pi$  in sum of division*: From the sum of the division of the DSs of the *sūrah al Kawthar* is almost equal to  $\pi$ , as shown in **Figure 6**.

- $\frac{717}{969} + \frac{1068}{717} + \frac{969}{1068} = 3.13678 \cong 3.14 (i.e.\pi)$
- 7) *Similarity in sum and multiplication of DS*: Interestingly the end product of the sum and multiplication of DS is 9 as shown below.
- $969+717+1068=2754 \rightarrow 2+7+5+4=18 \rightarrow 1+8=9$  (divisible by 3)
  - $2754 = 2 \times 3 \times 3 \times 3 \times 3 \times 17$
  - $969 \times 717 \times 1068 = 742017564 \rightarrow 7+4+2+0+1+7+5+6+4=36 \rightarrow 3+6=9$  (divisible by 3)
  - $742017564 = 2 \times 2 \times 3 \times 3 \times 3 \times 17 \times 19 \times 89 \times 239$
- 8) *Alphabetic (i.e. Harf-wise) arrangement*: From **Table 1**, after placing the *Abjad* values one by one a number 15011709105020130206500200 is got. Similarly, 8090303020022061508200 and 1503001501205613012400200 are also got from **Table 2 and 3**. Finally putting all values in serial a big number can be obtained which is 1501170910502013020650020080903030200220615082001503001501205613012400200. Putting the no of *surah* and ayat number in-front, and reversing as well, of this big no. another two big numbers are obtained. Amazingly, it is observed that all of these numbers are divisible by 200 ( $=2 \times 2 \times 2 \times 5 \times 5$ ) and as well as by 3, as shown below.
- $15011709105020130206500200 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 269 \times 1531 \times 2371 \times 448741 \times 57098423$
  - $8090303020022061508200 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 379 \times 2027 \times 17551756259759$
  - $1503001501205613012400200 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 1065643 \times 2350695778989169$
  - $1501170910502013020650020080903030200220615082001503001501205613012400200 = 2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 67 \times 1259 \times 10524849499 \times 536555272091 \times 913874581582809353081 \times 1915755774532083473497$
  - From 1<sup>st</sup>-3<sup>rd</sup> Ayat with no of *surah* and ayat no:  $10831501170910502013020650020080903030200220615082001503001501205613012400200 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 7 \times 157 \times 471618396385769009017106125973613903137950577 \times 34829638824325929451165729$
  - From 1<sup>st</sup>-3<sup>rd</sup> Ayat with ayat no and no of *sūrah*:  $31081501170910502013020650020080903030200220615082001503001501205613012400200 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 233 \times 911 \times 244048665813248203196197249167941838114353581917102851203471646068109$

Table 5: *Abjad* based Analysis on lateral arrangement

Ayat	Numerical	Divisible	Comm	Numeric	Divisible	Commen
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1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	value	number	ent	al value (reverse order)	number	t
1	80	1	1801		prime	1801		prime
50	90	50	509050	$2 \times 5 \times 5 \times 10181$		509050	$2 \times 5 \times 5 \times 10181$	
1	30	300	130300	$2 \times 2 \times 5 \times 5 \times 1303$		300301		prime
1	30	1	1301		prime	1301		prime
70	200	50	7020050	$2 \times 5 \times 5 \times 140401$		5020070	$2 \times 5 \times 11 \times 47 \times 971$	
9	2	1	921	$3 \times 307$	Divisible by 3	129	$3 \times 43$	Divisible by 3
10	20	20	102020	$2 \times 2 \times 5 \times 5101$		202010	$2 \times 5 \times 20201$	
50	6	5	5065	$5 \times 1013$		5650	$2 \times 5 \times 5 \times 113$	
20	1	6	2016	$2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 7$	Divisible by 3	6120	$2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 17$	Divisible by 3
1	50	1	1501	$19 \times 79$		1501	$19 \times 79$	
30	8	30	30830	$2 \times 5 \times 3083$		30830	$2 \times 5 \times 3083$	
20	200	1	202001		prime	120020	$2 \times 2 \times 5 \times 17 \times 353$	
6		2	62	$2 \times 31$		26	$2 \times 13$	
500		400	500400	$2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 139$	Divisible by 3	400500	$2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 5 \times 89$	Divisible by 3
200		200	200200	$2 \times 2 \times 2 \times 5 \times 5 \times 7 \times 11 \times 13$		200200	$2 \times 2 \times 2 \times 5 \times 5 \times 7 \times 11 \times 13$	
<b>Total</b>			8707518	$2 \times 3 \times 3 \times 483751$	Divisible by 3	6799509	$3 \times 3 \times 31 \times 24371$	Divisible by 3

9) *Abjad based lateral arrangement*: In Table 5 analysis (*abjad* based) is done based on lateral arrangement-

- There are 3 prime numbers in both ordered (1801, 1301 and 202001) and reverse ordered pattern (1801, 300301 and 1301).
- Also, there are 3 numbers divisible by 3 in both ordered (921, 2016 and 500400) and reverse ordered pattern (129, 6120 and 400500).
- The remaining number is 9 (non-prime+ non divisible by 3) in both ordered and reverse ordered pattern. Therefore a stunning symmetry exists in both the patterns.
- The number 339 (extracted from above three points) is also divisible by 3.

10) *Ordered and reverse-ordered arrangement (Abjad based)*: In Table 5, the sum of ordered arrangement is 8707518. The sum of reverse-ordered arrangement is 6799509. Both are divisible to 3. Also the digit sum of both the numbers is 9 (divisible to 3).

- $8707518 \rightarrow 8+7+0+7+5+1+8=36 \rightarrow 3+6=9$
- $6799509 \rightarrow 6+7+9+9+5+0+9=45 \rightarrow 4+5=9$

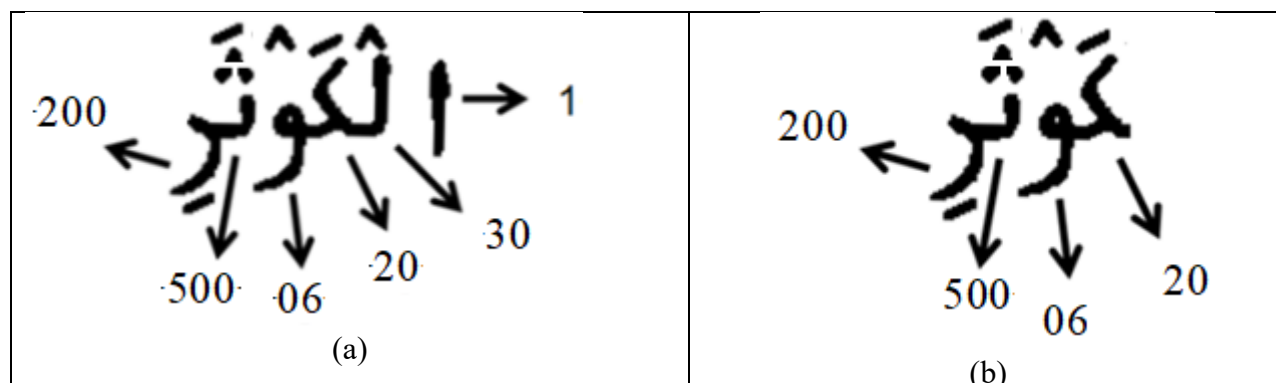


Fig 7: Abjad values of a words 'al-Kawthar' and 'Kawthar'

11) *Regarding the word 'al-Kawthar' (Abjad based)*: In Fig 7 (a), Digit sum is  $1+30+20+06+500+200=757$  (a prime number). Also  $757 \rightarrow 7+5+7=19$  (also a prime).

12) *Regarding the word 'Kawthar' (Abjad based)*: In Fig 7 (b), Digit sum is  $20+06+500+200=726 \rightarrow 7+2+6=15$  (divisible by 3). Also  $726 = 2 \times 3 \times 11 \times 11$  (divisible by 3).

13) *Alphabetic (i.e. Harf-wise) positioning (Abjad based)*: From Fig 7 (b),  $206500200 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 344167$  (divisible by 3). In reverse order,  $200500620 = 2 \times 2 \times 3 \times 5 \times 3341677$  (divisible by 3).

14) *Sūrah –based arrangement*: Sūrah Kawthar is the 108<sup>th</sup> Sūrah of the holy Qur'an, which has 114 surah. This means 107 sūrahs are before it (Sūrah Fatiha to Sūrah Ma'un), and another 6 sūrahs (Sūrah Kafirun to Sūrah Nus) are after this surah. That means  $107+1$  (i.e. Sūrah Kawthar) + 6, which can be written as 10716. In reverse order 61107. Both of these numbers are divisible to 3. Sum of the numbers 1 to 107 is 5778 and sum of the numbers from 109 to 114 is 669. Both the numbers (i.e 5778 and 669) are divisible to 3. That means even the position of Sūrah Kawthar is selected with utmost mathematical precision.

- $10716 = 2 \times 2 \times 3 \times 19 \times 47$  (divisible to 3)
- $61107 = 3 \times 20369$  (divisible to 3)

15) *Sūrah based positioning*: As mentioned earlier, Sūrah Kawthar is the 108<sup>th</sup> Sūrah of the holy Qur'an, which has 114 sūrah. Sum of the numbers 1 to 107 is 5778 and sum of the numbers from 109 to 114 is 669. Both the numbers (i.e 5778 and 669) are divisible to 3. Therefore, the



position of *Sūrah* Kawthar based on surah numbers, is selected with utmost mathematical precision.

- Sum from 1 to 107=1+2+3+.....+107=5778, (divisible to 3).
- The no 108 is divisible to 3.
- Sum from 109 to 114=109+110+.....+114=669, (divisible to 3).

16) *Ayat-based positioning*: Counting from the beginning of the holy Qur'an, *Sūrah* Kawthar has the ayat 6205, 6206 and 6207 (i.e. total 3 ayat). Before this *sūrah* there are 6204 *ayat*. And after this *sūrah* there are *ayat* starting from 6208 to 6236. Some related calculations are shown below. From this it can be also concluded that, the position of *Sūrah* Kawthar based on ayat numbers, is selected with utmost mathematical precision.

- Sum from 1 to 6204=1+2+3+.....+6205=19247910, (divisible to 3).
- Sum from 6205 to 6207=6205+6206+6207=18618, (divisible to 3).
- Sum from 6208 to 6236=6208+6209+.....+6236=  $\frac{6236(6236+1)}{2}$  -  $\frac{6207(6207+1)}{2}$  =180438, (divisible to 3).

Table 6: Abjad numbering of 1<sup>st</sup> ayat

Arabic alphabet	Numeric value
ا	1
ن	50
ل	30
ا	1
ع	70
ط	9
ي	10
ن	50
ك	20
ل	30
ك	20
و	6
ث	500
ر	200
<b>Total</b>	<b>967</b>

Table 7: Abjad numbering of 2<sup>nd</sup> ayat

Arabic alphabet	Numeric value
ف	80
ص	90
ل	30
ل	30
ر	200
ب	2
ك	20
و	6
ل	30
ن	50
ح	8
ر	200
<b>Total</b>	<b>716</b>

Table 8: Abjad numbering of 3<sup>rd</sup> ayat

Arabic alphabet	Numeric value
ا	1
ن	50
ش	300
ل	30
ن	50
ء	1
ك	20
ه	5
و	6
ل	30
ا	1
ب	2
ت	400
ر	200
<b>Total</b>	<b>1066</b>

إِنَّا أَنْعَمْنَاكَ الْكَوْثَرَ  
فَصَلِّ لِرَبِّكَ وَأَنْحَرْ  
إِنَّ شَانِئَكَ هُوَ الْأَبْتَرُ

Figure 1: *Sūrah* Al-Kawthar, copied from the holy Qur'an

17) *Existence of few Primes*: Now let us view *Sūrah* Kawthar as it is recited. If we extract the alphabets of *Sūrah* Kawthar as it is recited here are the alphabets we get Table 7, 8 and 9. The following conclusion can be extracted.

- 1<sup>st</sup> ayat (Table 6)-13 alphabet, 13 is a prime no.
- 2<sup>nd</sup> ayat (Table 7)-11 alphabet, 11 is a prime no.
- 3<sup>rd</sup> ayat (Table 8)-13 alphabet, 13 is a prime no.
- Adding them: 13+11+13=37 is prime no.
- Arranging them: 131113 is prime no.
- 967+716+1066=2749 is prime no.

18) *A Stunning inherent similarity*: From Table 6, after placing the *abjad* values one by one a number 150170910502030206500200 is got. Similarly 809030302002206508200 and 15030050120563012400200 are also got from Table 7 and 8. Finally putting all values in serial a big number can be got which is 15017091050203020650020080903030200220650820015030050120563012400200. Out of surprise is seen that all of them are divisible by 200 ( $=2 \times 2 \times 2 \times 5 \times 5$ ), as shown below, which also is stunning inherent similarity.

- $150170910502030206500200 = 2 \times 2 \times 2 \times 5 \times 5 \times 257 \times 2921613044786579893$
- $809030302002206508200 = 2 \times 2 \times 2 \times 5 \times 5 \times 19 \times 206281 \times 1032100440919$
- $15030050120563012400200 = 2 \times 2 \times 2 \times 5 \times 5 \times 1487 \times 7929773 \times 6373217051$
- $15017091050203020650020080903030200220650820015030050120563012400200 = 2 \times 2 \times 2 \times 5 \times 5 \times 6311 \times 6469 \times 44160517 \times 167903735201 \times 248042431629717695879952353956052542367$

Table 9: Abjad numbering of 1<sup>st</sup> ayat

Arabic alphabe t	Numeri c value
ا	1
ن	50
ع	70
ط	9
ي	10
ك	20
ل	30
و	6
ث	500
ر	200

Table 10: Abjad numbering of 2<sup>nd</sup> t ayat

Arabic alphabe t	Numeri c value
ف	80
ص	90
ب	2
ح	8

Table 11: Abjad numbering of 3<sup>rd</sup> ayat

Arabic alphabe t	Numeri c value
ش	300
ه	5
ت	400

إِنَّا أَنْعَمْنَا عَلَى الْكَافِرِ  
فَصَلِّ لِرَبِّكَ وَأَنْحَرْ  
إِنَّ شَانِئَكَ هُوَ الْأَبْتَرُ

Figure 1: Sūrah Al-Kawthar, copied from the holy Qur'an

19) *Used alphabets (considering the sūrah as a whole)*: This calculation is made considering the sūrah as a whole. Used alphabets at the 1<sup>st</sup> ayah is 10 (Table 9), used alphabets at the 2<sup>nd</sup>

ayah is 4 (Table 10) and used alphabets at the 3<sup>rd</sup> ayah is 3 (Table 11). The total  $10+4+3=17$ , which is a Prime number.

Table 12: *Abjad*  
numbering of 1<sup>st</sup> ayat

Arabic alphabe t	Numeri c value
ا	1
ن	50
ع	70
ط	9
ي	10
ك	20
ل	30
و	6
ث	500
ر	200

Table 13: *Abjad*  
numbering of 2<sup>nd</sup> t  
ayah

Arabic alphabe t	Numeri c value
ف	80
ص	90
ل	30
ر	200
ب	2
ك	20
و	6
ا	1
ن	50
ح	8

Table 14: *Abjad*  
numbering of 3<sup>rd</sup> ayat

Arabic alphabe t	Numeri c value
ا	1
ن	50
ش	300
ك	20
ه	5
و	6
ل	30
ب	2
ت	400
ر	200

إِنَّا أَنْعَمْنَاكَ الْكَوْثَرَ  
فَصَلِّ لِرَبِّكَ وَأَنْحَرْ  
إِنَّ شَانِئَكَ هُوَ الْأَبْتَرُ

Figure 1: Sūrah Al-  
Kawthar, copied  
from the holy Qur'an

20) *Used alphabets (considering each ayat separately)*: This calculation is made considering each ayat separately. Used alphabets at the 1<sup>st</sup> ayat is 10 (Table 12), used alphabets at the 2<sup>nd</sup> ayat is 10 (Table 13) and used alphabets at the 3<sup>rd</sup> ayat is also 10 (Table 14). The total  $10+10+10=30$ , which divisible by 3. From Table 12, 13 and 14 arranging the numerical values one after another a big number can be obtained which is also divisible by 3, as shown below.

- $1507091020306500200809030200220615081503002056302400200 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 7 \times 129679174629821852832549925460531 \times 2767068778278238351$

Table 15: Alphabetical frequency and related analysis (*abjad* based)

Alphabet	Serial No as per appearance	1 <sup>st</sup> Ayat	2 <sup>nd</sup> Ayat	3 <sup>rd</sup> Ayat	Digit Sum	Linear digit
1) ا	1	4	1	5	10	415
2) ن	2	2	1	2	5	212
3) ع	3	1	0	0	1	100
4) ط	4	1	0	0	1	100
5) ي	5	1	0	0	1	100
6) ك	6	2	1	1	4	211

إِنَّا أَنْعَمْنَاكَ الْكَوْثَرَ  
فَصَلِّ لِرَبِّكَ وَأَنْحَرْ  
إِنَّ شَانِئَكَ هُوَ الْأَبْتَرُ

Figure 1: Sūrah Al-  
Kawthar, copied from

7) ا	7	1	2	1	4	121	the holy Qur'an
8) و	8	1	1	1	3	111	
9) ث	9	1	0	0	1	100	
10) ر	10	1	2	1	4	121	
11) ف	11	0	1	0	1	010	
12) ص	12	0	1	0	1	010	
13) ب	13	0	1	1	2	011	
14) ح	14	0	1	0	1	010	
15) ش	15	0	0	1	1	001	
16) ه	16	0	0	1	1	001	
17) ت	17	0	0	1	1	001	
Sum	153	15	12	15	42	1635	

21) *Alphabetical frequency and related analysis (abjad based)*: In Table 15 alphabetical frequency and related analysis is presented. For example, Alif (ا) is seen 4, 1 and 5 time in the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> ayat respectively of the *Sūrah Kawthar*. The digit sum is 4+1+5=10. Also 4, 1 and 5 make the number 415. The same process is followed for the other alphabets. From Table 15, few big numbers are carefully generated and they are- 153, 1635, 1234567891011121314151617, 42111211110000000, 11000121021111000, 52000111010100111 and 415212100100100211121111100121010010011010001001001. It found that all of them are divisible by 3. [Please be noted that this is *abjad* based analysis where both "alif" and "hamza" have the same value of 1]

- $1635 = 3 \times 5 \times 109$
- $1+2+3+....+17=153 = 3 \times 3 \times 17$
- $1234567891011121314151617 = 3 \times 3 \times 47 \times 4993 \times 584538396786764503$
- $42111211110000000 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 41 \times 293 \times 116849$
- $11000121021111000 = 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 5 \times 3666707007037$
- $52000111010010111 = 3 \times 13 \times 19 \times 47 \times 181 \times 128879 \times 64007$
- $105111443141121111 = 3 \times 479 \times 732889 \times 99805627$
- $415212100100100211121111100121010010011010001001001 = 3 \times 36187 \times 3824689346082849376121361263446449553808550041$

Table 16: Non-*abjad*  
numbering of 1<sup>st</sup> ayat

Arabic alphabet	Numeric value
ا	1
ن	2
ا	1
ا	1
ع	3
ط	4
ي	5
ن	2
ك	6
ا	1
ل	7
ك	6
و	8
ث	9
ر	10
<b>Total</b>	<b>66</b>

Table 17: Non-*abjad*  
numbering of 2<sup>nd</sup>  
ayat

Arabic alphabet	Numeric value
ف	11
ص	12
ل	7
ل	7
ر	10
ب	13
ك	6
و	8
ا	1
ن	2
ح	14
ر	10
<b>Total</b>	<b>101</b>

Table 18: Non-*abjad*  
numbering of 3<sup>rd</sup>  
ayat

Arabic alphabet	Numeric value
ا	1
ن	2
ش	15
ا	1
ن	2
ء	16
ك	6
ه	17
و	8
ا	1
ل	7
ا	1
ب	13
ت	18
ر	10
<b>Total</b>	<b>118</b>

إِنَّا أَنْعَمْنَا عَلَى الْكَوْثَرِ  
فَصَلِّ لِرَبِّكَ وَأَنْحَرْ  
إِنَّ شَانِئَكَ هُوَ الْأَبْتَرُ

Figure 1: Sūrah Al-Kawthar, copied from the holy Qur'an

Note:

- I. In *abjad* value, both "alif" and "hamza" have the same value of 1.<sup>11</sup> The Arabic alphabet comprises 29 letters. However, in the Abecedarian alphabet there are 28 because there is no difference between Hamza and Alif.<sup>12</sup>
- II. In the calculation of Table 16, 17 and 18 all the *harfs* (i.e. ن in 1<sup>st</sup> Ayat, ل and ب in 2<sup>nd</sup> Ayat, ن in 3<sup>rd</sup> Ayat) having *Shaddah* (i.e. *tashdid*) are considered one *harf*, as per appearance (please see related calculation in the Point- 30).

22) *Numbering all alphabets as per the first appearance (non-*abjad* approach)*: The following calculation is done based on non-*abjad* approach. Numbering all alphabets as per the first appearance we can get Table 16, 17 and 18 for the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> ayat respectively. It is seen that all the numbers are divisible to 3. It also means that all the alphabets are perfectly oriented, aligned and placed.

<sup>11</sup> <https://charactercalculator.com/abjad-calculator>, Last accessed at 08/10/22

<sup>12</sup> <https://www.answering-christianity.com/fakir60/gematria.htm>, Last accessed at 08/10/22.

- From 1<sup>st</sup>-3<sup>rd</sup> Ayat: 1211345261768910111277101368121410121512166178171131810 =  $2 \times 3 \times 5 \times 40378175392297003709236712270713670717072205939037727$
- From 1<sup>st</sup>-3<sup>rd</sup> Ayat with no of *sūrah* and ayat no:  
10831211345261768910111277101368121410121512166178171131810 =  $2 \times 3 \times 3 \times 5 \times 120346792725130765667903078904090237890239024068646345909$
- From 1<sup>st</sup>-3<sup>rd</sup> Ayat with ayat no and no of *sūrah*:  
31081211345261768910111277101368121410121512166178171131810 =  $2 \times 3 \times 3 \times 5 \times 13 \times 9436487 \times 11457951979 \times 11409447134435290609 \times 21534268840087254749$
- 66101118 =  $2 \times 3 \times 11016853$
- 66+101+118=285 =  $3 \times 5 \times 19$

23) *Alphabetical frequency and related analysis (non-abjad based)*: In Table 19 alphabetical frequency and related analysis is presented. In non-abjad based approach there are 18 alphabets used in this *Sūrah*. For example, Alif (ا) is seen 4, 1 and 4 time in the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> ayat respectively of the *Sūrah* Kawthar. The digit sum is 4+1+4=9. Also 4, 1 and 4 make the number 414. The same process is followed for the other alphabets. From Table 19, few big numbers are carefully generated and they are- 1635, 123456789101112131415161718, 421112111100000000, 110001210211110000, 420001110100101111 and 41421210010010021112111100121010010011010001001001001. It found that all of them are divisible by 3.

Table 19: Alphabetical frequency and related analysis (non-abjad based)

Alphabet	Serial No as per appearance	1 <sup>st</sup> Ayat	2 <sup>nd</sup> Ayat	3 <sup>rd</sup> Ayat	Digit Sum	Linear digit
ا	1	4	1	4	9	414
ن	2	2	1	2	5	212
ع	3	1	0	0	1	100
ط	4	1	0	0	1	100
ي	5	1	0	0	1	100
ك	6	2	1	1	4	211
ل	7	1	2	1	4	121
و	8	1	1	1	3	111
ث	9	1	0	0	1	100
ر	10	1	2	1	4	121
ف	11	0	1	0	1	010
ص	12	0	1	0	1	010
ب	13	0	1	1	2	011
ح	14	0	1	0	1	010
ش	15	0	0	1	1	001
ء	16	0	0	1	1	001

إِنَّا أَنْعَمْنَا عَلَىكَ الْكَوْثَرَ  
فَصَلِّ لِرَبِّكَ وَأَنْحَرْ  
إِنَّ شَانِئَكَ هُوَ الْأَبْتَرُ

Figure 1: *Sūrah* Al-Kawthar, copied from the holy Qur'an

ه	17	0	0	1	1	001	
ت	18	0	0	1	1	001	
Sum	171	15	12	15	42	1635	

- $421112111100000000 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 41 \times 293 \times 116849$
- $110001210211110000 = 2 \times 2 \times 2 \times 2 \times 3 \times 5 \times 5 \times 5 \times 5 \times 3666707007037$
- $420001110100101111 = 3 \times 131 \times 46441 \times 93827 \times 245261$
- $951114431411211111 = 3 \times 11 \times 73 \times 394817115571279$
- $414212100100100211121111100121010010011010001001001001 = 3 \times 613229 \times 229493532790323744644908223 \times 15020784203869 \times 65315429$
- $123456789101112131415161718 = 2 \times 3 \times 3 \times 97 \times 88241 \times 801309546900123763$

Table 20: Non-*abjad* based Analysis on lateral arrangement

Ayat			Numerical value	Divisible number	Comment	Numerical value (reverse order)	Divisible number	Comment
1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>						
1	11	1	1111	$11 \times 101$		1111	$11 \times 101$	
2	12	2	2122	$2 \times 1061$		2122	$2 \times 1061$	
1	7	15	1715	$5 \times 7 \times 7 \times 7$		1571		prime
1	7	1	171	$3 \times 3 \times 19$	Divisible by 3	171	$3 \times 3 \times 19$	Divisible by 3
3	10	2	3102	$2 \times 3 \times 11 \times 47$	Divisible by 3	2103	$3 \times 701$	Divisible by 3
4	13	16	41316	$2 \times 2 \times 3 \times 11 \times 313$	Divisible by 3	16134	$2 \times 3 \times 2689$	Divisible by 3
5	6	6	566	$2 \times 283$		665	$5 \times 7 \times 19$	
2	8	17	2817	$3 \times 3 \times 313$	Divisible by 3	1782	$2 \times 3 \times 3 \times 3 \times 3 \times 11$	Divisible by 3
6	1	8	618	$2 \times 3 \times 103$	Divisible by 3	816	$2 \times 2 \times 2 \times 2 \times 3 \times 17$	Divisible by 3
1	2	1	121	$11 \times 11$		121	$11 \times 11$	
7	14	7	7147	$7 \times 1021$		7147	$7 \times 1021$	
6	10	1	6101		prime	1106	$2 \times 7 \times 79$	
8		13	813	$3 \times 271$	Divisible by 3	138	$2 \times 3 \times 23$	Divisible by 3
9		18	918	$2 \times 3 \times 3 \times 3 \times 17$	Divisible by 3	189	$3 \times 3 \times 3 \times 7$	Divisible by 3

10		10	1010	$2 \times 5 \times 101$		1010	$2 \times 5 \times 101$	
<b>Total</b>			69648	$2 \times 2 \times 2 \times 2 \times 3 \times 1451$	Divisible by 3	36186	$2 \times 3 \times 37 \times 163$	Divisible by 3

24) *Non-abjad based lateral arrangement*: In Table 20 analysis (Non- *abjad* based) is done based on lateral arrangement-

- There are 01 prime number in both ordered (6101) and reverse ordered pattern (1571).
- Also, there are 07 numbers divisible by 3 in both ordered (171, 3102, 41316, 2817, 618, 813, 918) and reverse ordered pattern (171, 2103, 16134, 1782, 816, 138, 189).
- The remaining number is 7 (non-prime+ non divisible by 3) in both ordered and reverse ordered pattern. Therefore a stunning symmetry exists in the both the patterns.
- The number 177 (extracted from above three points) is also divisible by 3.

25) *Ordered and reverse-ordered arrangement (Non-abjad based)*: In Table 20, the sum of ordered arrangement is 69648. The sum of reverse-ordered arrangement is 36186. Both are divisible to 3. Also the digit sum of both the numbers is 6 (divisible to 3).

- $69648 \rightarrow 6+9+6+4+8=33 \rightarrow 3+3=6$
- $69648 = 2 \times 2 \times 2 \times 2 \times 3 \times 1451$
- $36186 \rightarrow 3+6+1+8+6=24 \rightarrow 2+4=6$
- $36186 = 2 \times 3 \times 37 \times 163$

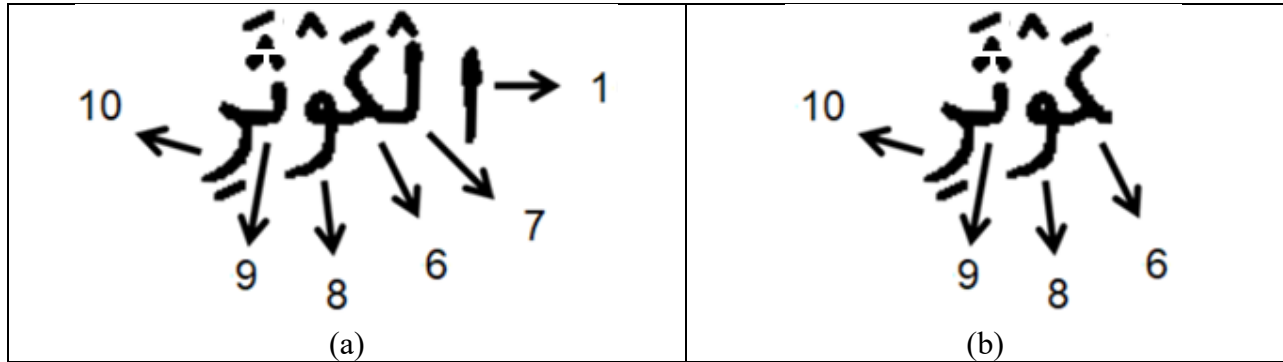


Fig 8: Non-*abjad* values of a words 'al-Kawthar' and 'Kawthar'

26) *Regarding the word 'al-Kawthar' (Non-Abjad based)*: In Fig 8 (a), Digit sum is  $1+7+6+8+9+10=41$  (a prime number).

27) *Regarding the word 'Kawthar' (Non-Abjad based)*: In Fig 8 (b), Digit sum is  $6+8+9+10=33$  (divisible by 3).

28) *Alphabetic (i.e. Harf-wise) positioning (Non-Abjad based)*: From Fig 8 (b),  $68910 = 2 \times 3 \times 5 \times 2297$  (divisible by 3). In reverse order,  $10986 = 2 \times 3 \times 1831$  (divisible by 3).



29) *Few similarities*: From Fig 7 and 8, the conclusions from both *abjad* and no-*abjad* based analysis is perfectly similar, they are-

- Both 757 and 41 are primes
- Both the digit sums 726 and 33 are divisible by 3.
- Both the numbers 206500200 and 68910 and both the reverse numbers 200500620 and 10986 are divisible by 3.

30) *Regarding the 'Shaddah' harfs (i.e. alphabets)*: As per appearance, in the calculation of Table 2, 3 and 4 all the *harfs* (e.g.  $\dot{\text{و}}$  in 1<sup>st</sup> Ayah,  $\text{ج}$  and  $\text{ب}$  in 2<sup>nd</sup> Ayah,  $\dot{\text{و}}$  in 3<sup>rd</sup> Ayah) having *Shaddah* are considered one *harf*. The same is also done for Table 16, 17 and 18.

- The *abjad* sum of the *Shaddah harfs* is 132 (=50+30+2+50, values are taken from Table 2, 3 and 4), which is divisible by 3 also.
- The non-*abjad* sum of the *Shaddah harfs* is 24 (=2+7+13+2, values are taken from Table 16, 17 and 18), which is divisible by 3 also.

## 4. CONCLUSION

In the 1<sup>st</sup> ayah of *Sūrah Kawthar*, the Last Prophet Muhammad, peace be upon him, was guaranteed the glad tiding of a heavenly river on the Day of Judgment besides numerous favours in both worlds.<sup>13</sup> In the 2<sup>nd</sup> ayah of *Sūrah Kawthar* the Prophet was advised to pray and sacrifice in the name of Allah as a sign of gratitude to his Lord. And in the last ayah of *Sūrah Kawthar*, the Final Messenger was assured that the one who hates him and publicly criticizes him is truly cut off from descendants and from any goodness. There are different reports about the historical background of the Surah, its reason of revelation and its significance. In a nutshell, this Surah depicts the assurance of success for the Prophet (1<sup>st</sup> ayah), advice of his duty (2<sup>nd</sup> ayah) and fate of the haters of the Prophet (3<sup>rd</sup> ayah).

Besides the language-based presentation, this paper presents a math-based approach to the Surah, which not only illustrates the stunning structure of the *sūrah* but also introduces the impossibility of being written by any human being, although it was revealed at the 7<sup>th</sup> Century. In the present study, few points are stressed upon, where the singularity of the *sūrah* is presented in terms of 'divisibility of 3', 'prime', etc. List of the numbers controlling the calculation of the study is presented in Table 21. Please be noted that 30 main points are mentioned in this study, which are explained in many sub-sections. Present findings can only act as a supporting document for similar studies in future, *in sha Allah*. From the study, the following major conclusions can be drawn:

<sup>13</sup> Al-Kawthar, Quran.com, available at <https://quran.com/108>

- a. It is seen that the number '3' (i.e. three) is the number which is controlling/ influencing most of the calculations (as found from Table 21).
- b. The *Sūrah* Kawthar is perfectly placed in the holy Qur'an, any dislocation may loss the numeric harmony.
- c. Even the alphabets of the *Sūrah* Kawthar is managed with utmost mathematical precision, any disarray may cause problem in mathematical computation.
- d. Such mathematical precision only ensures the creation of this *Sūrah* (ie. *Sūrah* Kawthar) by the almighty Allah *Subhanahu wata'ala* as well as the singularity of the holy Al-Qur'an.

*The divisibility rule of the number '3' states that if the sum of the digits of a whole number is a multiple of 3, then the original number is also divisible by 3. In Sūrah Al-Kawthar, this rule is seen to be perfectly matched in most of the points. Also in other studies, some scholars explored its amazing status towards number 10.<sup>14</sup> Of course, there maybe many more contexts from which this surah can be studied and its pearls can be explored, and the same is also applicable for other sūrahs of the holy Qur'an and the holy Qur'an itself as a whole.*

Table 21: List of the numbers controlling the calculation of the study

Point No	Subject	Calculation is controlled by			Prime	Others
		3	7	19		
1	<i>Digit sum (DS)</i>	√				
2	<i>Similarity in DS of DS</i>	√				
3	<i>Similarity in the sum of the corresponding DS</i>	√				
4	<i>Similarity in the subtraction of the corresponding DS</i>	√				
5	<i>Similarity in DS of multiplication:</i>	√				
6	<i>Existence of <math>\pi</math> in sum of division:</i>					3.14 (i. e. $\pi$ )
7	<i>Similarity in sum and multiplication of DS</i>	√				
8	<i>Alphabetic (i.e. Harf-wise) arrangement</i>	√				200
9	<i>Abjad based lateral arrangement</i>	√			√	
10	<i>Ordered and reverse-ordered arrangement (Abjad based)</i>	√				
11	<i>Regarding the word 'al-Kawthar' (Abjad based)</i>				√	
12	<i>Regarding the word 'Kawthar' (Abjad based)</i>	√				
13	<i>Alphabetic (i.e. Harf-wise) positioning (Abjad</i>	√				

<sup>14</sup> Quran Math Miracles, Ep 2: Amazing Math of Shortest Chapter, found in <https://www.youtube.com/watch?v=g4unpZxi1uA>, Last visited 06/07/2022

Point No	Subject	Calculation is controlled by			Prime	Others
		3	7	19		
	<i>based)</i>					
14	<i>Sūrah –based arrangement</i>	√				
15	<i>Sūrah –based positioning</i>	√				
16	<i>Ayat–based positioning</i>	√				
17	<i>Existence of few Primes</i>				√	
18	<i>A Stunning inherent similarity</i>					200
19	<i>Used alphabets (considering the sūrah as whole)</i>				√	
20	<i>Used alphabets (considering each ayat separately)</i>	√	√			
21	<i>Alphabetical frequency and related analysis (abjad based)</i>	√				
22	<i>Numbering all alphabets as per the first appearance (non-abjad approach)</i>	√		√		
23	<i>Alphabetical frequency and related analysis (non-abjad based)</i>	√				
24	<i>Non-abjad based lateral arrangement</i>	√			√	
25	<i>Ordered and reverse-ordered arrangement (Non-abjad based)</i>	√				
26	<i>Regarding the word ‘al-Kawthar’ (Non-Abjad based)</i>				√	
27	<i>Regarding the word ‘Kawthar’ (Non-Abjad based)</i>	√				
28	<i>Alphabetic (i.e. Harf-wise) positioning (Non-Abjad based)</i>	√				
29	<i>Few similarities:</i>	√			√	
30	<i>Regarding the ‘Shaddah’ harfs (i.e. alphabets)</i>	√				

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