

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

*In the name of God, Allah,  
the most Merciful qualitatively,  
the most Merciful quantitatively*

# **Quran and Primatology**

## **Prime Numbers are The Key**

**Ali Adams**

*In the name of Allah,  
the most Merciful qualitatively,  
the most Merciful quantitatively*

All praise is due to God, the Sustainer of all Seen and Unseen worlds, for showing us some new knowledge within the first chapter of the holy book of Islam, **The Quran**. This short and oft-repeated chapter is so central to Muslims' prayers and Quran recitation that all such actions must begin by reciting it.

أَعُوذُ بِاللّٰهِ مِنَ الشَّيْطَانِ الرَّجِيمِ      بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيمِ

1. بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيمِ

2. الْحَمْدُ لِلّٰهِ رَبِّ الْعَالَمِينَ

3. الرَّحْمٰنِ الرَّحِيمِ

4. مَلِكِ يَوْمِ الدِّينِ

5. إِيَّاكَ نَعْبُدُ وَإِيَّاكَ نَسْتَعِينُ

6. اهْدِنَا الصِّرَاطَ الْمُسْتَقِيمَ

7. صِرَاطَ الَّذِينَ أَنْعَمْتَ عَلَيْهِمْ غَيْرِ الْمَغْضُوبِ عَلَيْهِمْ وَلَا الضَّالِّينَ

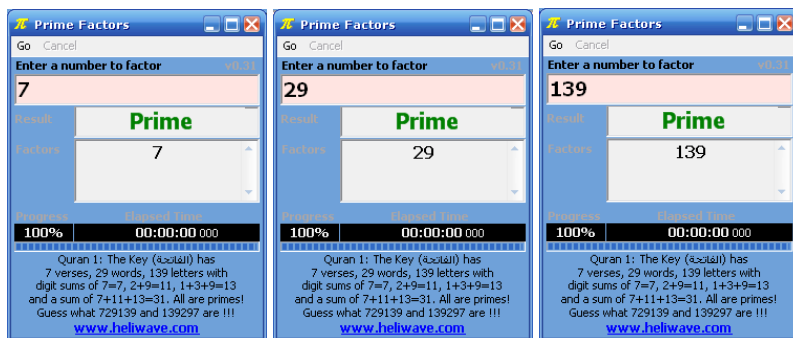
1. *In the name of Allah, the Beneficent, the Merciful.*
2. *Praise be to Allah, Lord of the Worlds,*
3. *The Beneficent, the Merciful.*
4. *Master of the Day of Judgment,*
5. *Thee (alone) we worship; Thee (alone) we ask for help.*
6. *Show us the straight path,*
7. *The path of those whom Thou hast favoured; Not the (path) of those who earn Thine anger nor of those who go astray.*

So pivotal this chapter is that the Prophet (peace be upon him and his holy family) says that the whole Quran is contained within this chapter and the whole chapter is contained within its first verse "*Bism Allah Ar-Rahmaan Ar-Raheem*" and the whole verse is contained within its first word "*Bism*" and the whole word is contained within its first letter of "*B*"!

## The Key Structure

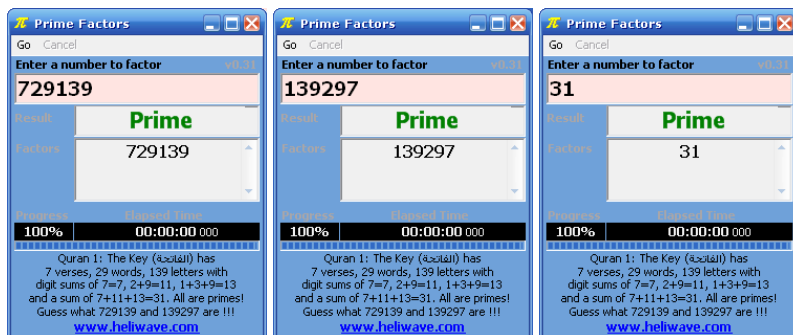
Glory to God, Allah, All-knowing, for making this chapter consists of **7** verses, **29** words and **139** letters and for naming it "*The Opener*" (الفاتحة Al-Faatiha) to act as **The Key** for unlocking the remaining chapters of The Quran, **The Message**.

Indeed, all **7**, **29** and **139** are prime numbers that are indivisible by all other numbers except themselves and 1. Not only these numbers are prime but the sums of their digits are primes too ( $7=7$ ,  $2+9=11$ ,  $1+3+9=13$ ) making them a special kind of primes called "*Additive Prime Numbers*".



Prime Factorization of 7, 29 and 139

Even more amazingly, joining these numbers left-to-right **729139** or right-to-left **139297** also produces prime numbers with prime digit sums too ( $1+3+9+2+9+7=31$ ), making them additive primes too!!!



Prime Factorization of 729139, 139297 and 31

## Prime Numbers and Cryptology

Because of their mysterious distribution amongst the natural numbers, prime numbers are used in cryptology to communicate secret information. When you buy something over the Internet with a credit card, two large prime numbers wrap your credit card details to be securely sent online protected from any interceptors. Indeed governments use the exact same technique with even longer prime numbers to secure their communication channels.

Prime number have baffled mathematicians over 2300 years of recorded history and currently The Clay Mathematics Institute, Cambridge, Massachusetts, USA is offering a \$1,000,000 prize to whoever solves their distribution mystery (see [Riemann Hypotheses](#)) or proves it is unsolvable.

## Readable Encrypted Book

God All-knowing also used prime numbers to hide secret information inside a seemingly readable and innocent text. However, God named this book "The Quran" which literally means "The Readable" and challenged Man to produce at least a chapter similar to any of its chapters a hint that although readable on the face of it, The Quran is in fact encrypted at chapter level. This is perhaps why there is no currently research effort to produce such "Readable Encrypted Text".

## Multi-layered Book

Allah Almighty is clearly pointing at prime numbers to be used as the key to unlocking some of the hidden secrets just under the surface of the Quranic text that is built as a multi-layer as hinted to by Allah the All-Wise in Quran 18:109:

أَعُوذُ بِاللّٰهِ مِنَ الشَّيْطَانِ الرَّجِيمِ بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيمِ

قُلْ لَوْ كَانَ الْبَحْرُ مِدَادًا لِّكَلِمَاتِ رَبِّي لَنَفَذَ الْبَحْرُ قَبْلَ أَنْ تَنْفَدَ كَلِمَاتُ رَبِّي  
وَلَوْ جِئْنَا بِمِثْلِهِ مَدَدًا

*Say: If the ocean were ink for the words of my Lord, the ocean would run out, before the words of my Lord run out, even if we double the ink supply.*

## The Book Structure

Almighty says in Quran 15:87:

أَعُوذُ بِاللّٰهِ مِنَ الشَّيْطَانِ الرَّجِيمِ بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيمِ

وَلَقَدْ آتَيْنَاكَ سَبْعًا مِّنَ الْمَثَانِي وَالْأَقْرَأَنَ الْعَظِيمِ

*And We've given you seven of the doubles and the Great Quran.*

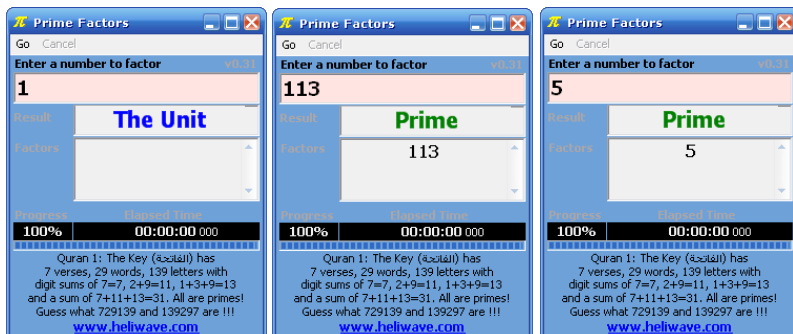
The Prophet (pbuh+f) explained the seven doubles are the seven verses of chapter The Key as the word "المثاني" (doubles) shares the same root as the word "ثناء" (or praise) and this chapter is all about praising and exalting God Almighty.

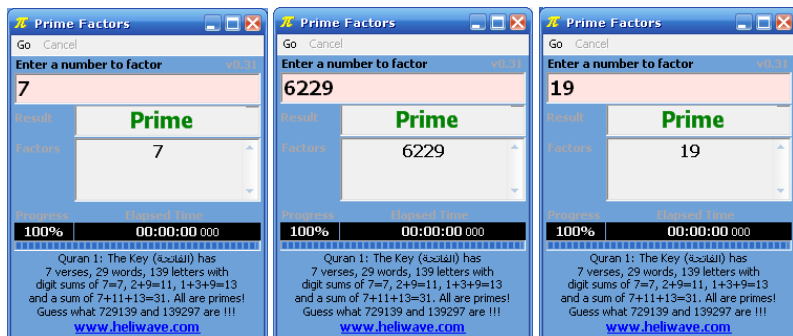
Allah Almighty is therefore saying in the above verse that the Book we call The Quran has in fact two parts; The Key chapter as one part, and all remaining chapters as the second part. And this can be easily confirmed using prime numbers with prime digit sums.

Although the total number of chapters (114) and total number of verses (6236) in the Book are not prime numbers (composites), once the Book is considered to be two parts, a Key part and a Quran or encrypted Message part:

$$\begin{array}{rclclcl} \text{Book} & = & \text{Key} & + & \text{Message} & & \\ 114 & = & 1 & + & 113 & \text{ chapters} & \\ 6236 & = & 7 & + & 6229 & \text{ verses} & \end{array}$$

then all **1**, **113**, **7**, and **6229** are in fact prime numbers with primes digit sums ( $1=1$ ,  $1+1+3=5$ ,  $7=7$ ,  $6+2+2+9=19$ ) too, additive prime numbers indeed!





Prime Factorization of 1, 113, 5, 7, 6229 and 19

## Primality of 1

Note that since 1900AD **1** has been considered as neither prime nor composite in order to simplify the *Fundamental Theory of Arithmetic* so every composite number is the product of prime numbers in one unique way only. This also required a change in the definition of prime numbers to have two distinct divisors instead of two divisors to exclude 1 forcefully.

This research gives two new arguments for reinstating number **1** as a prime number just as was the case in all previous centuries.

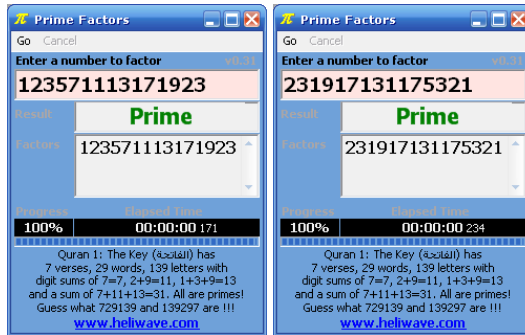
The first argument can be seen by examining the series of natural numbers from 1 to 10 where every prime number is mirrored by a composite number and vice versa as shown here:

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

**1, 2, 3** are mirrored by **10, 9, 8** respectively, **4** is mirrored by **7**, and **5** is mirrored by **6**. This mirror symmetry about the center would not have existed if number **1** was not a prime.

The second argument for the primality of number **1** can be found deep within the human genome [<http://en.wikipedia.org/wiki/Genome>] in our number of our chromosome pairs of **23**.

Amazingly, concatenating all prime numbers from **1** to **23** left-to-right (**123571113171923**) and right-to-left (**231917131175321**) produces additive prime numbers (primes with prime digit sums)  $1+2+3+5+7+1+1+1+3+1+7+1+9+2+3 = 47$ . Without number 1 this numeric symmetry would not have existed.



Prime Factorization of 123571113171923 and 231917131175321

Not only number **1** is indivisible by all other numbers, it is not even divisible by itself as divisibility by 1 never divides a number into smaller parts enforcing its status as the purest of all primes. Number **1** is truly a **pure prime**.

Therefore this research defines a Prime Number as *an indivisible whole number*. Neither divisible by 1 for the above reason, nor divisible by itself as this only rearranges the units of the number from vertical to horizontal arrangement.

Evidence to support this new definition is given by God All-knowing in Quran 89:1-5

أَعُوذُ بِاللّٰهِ مِنَ الشَّيْطَانِ الرَّجِيمِ بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيمِ

- |   |   |
|---|---|
| 1. By the dawn.   | 1. وَالْفَجْرِ                          |
| 2. And by the ten nights.                                 | 2. وَلَيَالٍ عَشْرٍ                     |
| 3. And by the <b>related</b> and the <b>indivisible</b> . | 3. وَالشَّفْعِ وَالْوَتْرِ              |
| 4. And by the night as it eases away.                     | 4. وَاللَّيْلِ إِذَا يَسْرِ             |
| 5. Isn't that a big enough oath for he who can think?     | 5. هَلْ فِي ذَلِكَ قَسَمٌ لِّذِي حِجْرٍ |

where **related** may be reference to Fermat's Last Theorem ( $A^n + B^n = C^n$ ) and **indivisible** is a clear reference to prime numbers and Allah knows best.

## Primalogy System

But how can we use prime numbers to decode the Message of the Book or even a small part of it?

After unfruitful application of the current numerology that assigns logarithmic values to the Arabic letters in Abjad order to the 139 letters of chapter The Key, an inspiration from Allah Almighty suggested that prime numbers could be used instead to assign prime values to the 29 Arabic letters in the modern alphabetical order including standalone Hamza (ء) as follows:

						1	ء
79	ك	47	ض	19	د	2	ا
83	ل	53	ط	23	ذ	3	ب
89	م	59	ظ	29	ر	5	ت
97	ن	61	ع	31	ز	7	ث
101	ه	67	غ	37	س	11	ج
103	و	71	ف	41	ش	13	ح
107	ي	73	ق	43	ص	17	خ

New Primalogy System

## PV of The Key

Applying this new numerology system to the 139 letters of chapter The Key (الفاتحة):

(1) م ي ح ر ل ا ن م ح ر ل ا ه ل ل ا م س ب

$3+37+89$   $2+83+83+101$   $2+83+29+13+89+97$   $2+83+29+13+107+89$

(2) ن ي م ل ع ل ا ب ر ه ل ل د م ح ل ا

$2+83+13+89+19$   $83+83+101$   $29+3$   $2+83+61+83+89+107+97$

(3) م ي ح ر ل ا ن م ح ر ل ا

$2+83+29+13+89+97$   $2+83+29+13+107+89$

(4) ن ي د ل ا م و ي ك ل م

$89+83+79$   $107+103+89$   $2+83+19+107+97$



(5) ن ي ع ت س ن ك ا ي ا و د ب ع ن ك ا ي ا

2+107+2+79 97+61+3+19 103+2+107+2+79 97+37+5+61+107+97

(6) م ي ق ت س م ل ا ط ر ص ل ا ن د ه ا

2+101+19+97+2 2+83+43+29+53 2+83+89+37+5+73+107+89

(7) م ه ي ل ع ت م ع ن ا ن ي ذ ل ا ط ر ص

43+29+53 2+83+23+107+97 2+97+61+89+5 61+83+107+101+89

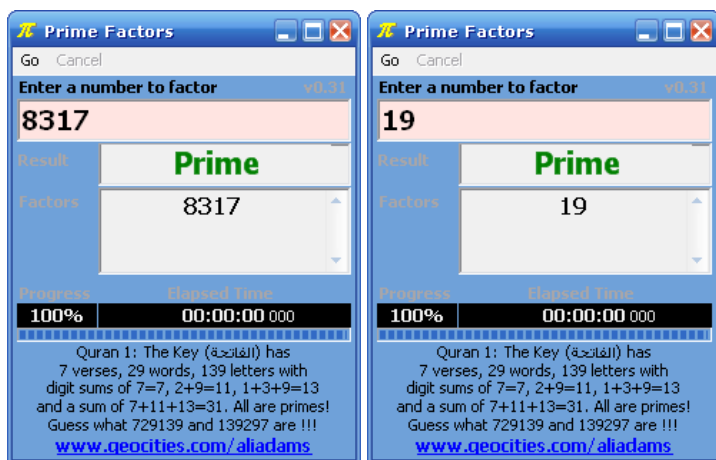
م ه ي ل ع ب و ض غ م ل ا ر ي غ

67+107+29 2+83+89+67+47+103+3 61+83+107+101+89

ن ي ل ا ض ل ا ا ل و

103+83+2 2+83+47+2+83+107+97

instantly produced a Primology Value of **8317** which is prime with a prime digit sum too ( $8+3+1+7=19$ ), an additive prime value indeed. Glory to Allah, All-Knowing!



Primology Values for chapter The Key

## PV of Oneness of God

This new numerology system was further validated when applied to the letters of the next most important chapter in the Quran, #112, Oneness of God (الإخلاص), and amazingly produced two additive prime values, with and without the non-numbered verse of "Bism Allah Ar-Rahmaan Ar-Raheem" as follows:

مي حرلا ن م حرلا دللا م سب

$3+37+89$   $2+83+83+101$   $2+83+29+13+89+97$   $2+83+29+13+107+89$

(1) دحأ دللا وه لق

$73+83$   $101+103$   $2+83+83+101$   $2+13+19$

(2) دم صلا دللا

$2+83+83+101$   $2+83+43+89+19$

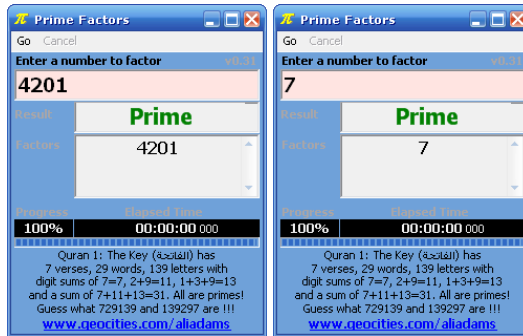
(3) دلوي ملو دلي مل

$83+89$   $107+83+19$   $103+83+89$   $107+103+83+19$

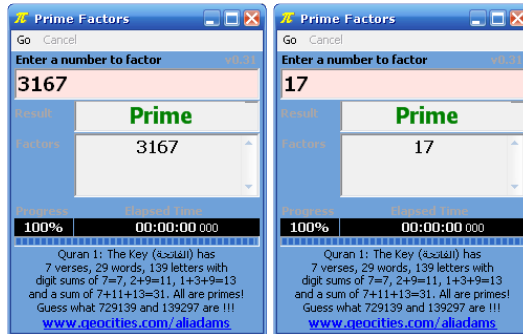
(4) دحأ أوفك هل نكي ملو

$103+83+89$   $107+79+97$   $83+101$   $79+71+103+2$   $2+13+19$

and produced a Primality Value of **4201** which is prime with a prime digit sum ( $4+2+0+1=7$ ) with BismAllah, and a Primality Value of **3167** which is prime with a prime digit sum ( $3+1+6+7=17$ ) without BismAllah.



Primality Value for chapter Oneness of God with Bism Allah



Primality Value for chapter Oneness of God without Bism Allah

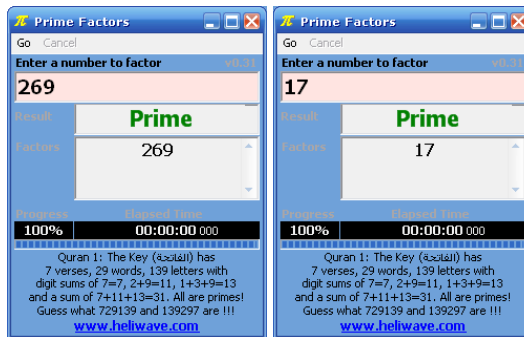
This clearly shows that the “Bism Allah Ar-Rahmaan Ar-Raheem” verse is a **prefix** to this chapter and any chapter that has it unnumbered whereas this same verse is an integral part to in chapter The Key and that is why it is numbered there as verse 1.

## PV of the word “Allah”

Out of curiosity, the new primalogy system was also applied to the word Allah (الله) as follows:

$$\begin{array}{c} \text{ا ل ل ه} \\ 2+83+83+101 \end{array}$$

and the new primalogy system produced a prime total primalogy value of **269** with a prime digit sum ( $2+6+9 = 17$ ), an additive prime number indeed.



Prime Factorization of 269 and 17

I tried few other short chapters manually and did not get positive results which could only mean that the purpose of The Key is to unlock some hidden knowledge within The Message and not for proving the consistency of the Quran.

After all, Islam needs to give the world evidence of things to come extracted from the Quran using a proper methodology not haphazard numerical research that “fixes” data for the sake of positive results.

**Primalogy** is The Key to decoding The Message!

**Primalogy** was therefore born. ☺

Currently we are searching for method(s) of using primatology to letter-process the Quranic text and have built an software application to automate this task. It is open-source so all are welcome to join in.

Quran 2012 Software – An Open Source Project in C# .NET

## References

The Holy Quran: **610-632**

[23 years of revelations by Allah through Angel Gabriel to the Prophet]

Recitation Method: **Hafs** bin Suleiman Al-Ghadhiri Al-Kufi ◀ Aasim bin abi Al-Nijood ◀ Abi Abdul-Rahmaan As-Selami ◀ Imam Ali bin abi Talib ◀ The Prophet Muhammed bin abd Allah.

◀ **قراءة حفص بن سليمان الغاضري الكوفي** ▶ عاصم بن أبي النجود ▶ أبي عبد الرحمن السلمي  
الإمام علي بن أبي طالب (ع) ▶ النبي محمد بن عبدالله (ص).

Writing Method: **Uthmani**. (الرسم العثماني)

| web: [www.heliwave.com](http://www.heliwave.com) | email: [heliwave@yahoo.com](mailto:heliwave@yahoo.com) |