

Integration of Islamic Mathematics in Quranic Equation and the Universe Creation

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ABSTRACT

The research aims to find consistency in the different mathematic phenomena such as Quranic triangular numbers and universe creation. The equation number of the triangular numbers is 72319. Furthermore, the God equation has the same digital number of 72319 to create the universe. The research data is from the Quran and the real factor in the universe. The methodology uses a systematic approach based on the prophecy's development and empirical values. The approach of the study is descriptive analysis with comparative advantages. Triangular numbers have a group of 319, 913, 616 to form a reflexivity equation. Allah math has an algorithm of 725 to create the universe as Quran Al-Anbiya 21.30. These two methods have the same digital numbers of 472319, as explained in the Quran Al-Hijr 15.87. Conclusions are both approaches have consistency numbers of 472319 or Hahslm equation. This Hahslm equation consists of Islam as an integral part of the Universe guidance Theory (UGT).

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1. INTRODUCTION

God has given name to Islam as a religion; hence its answer can be anything and fulfill sky and earth and its contents. In general, Arabic morphology is divided into three forms: verb, noun, and adverb. The unfinished process is the meaning of the word Islam which is included in the base word. This word expresses the nature of dynamic and not static. Islam is a dynamic movement for every single matter in this world [1].

Numbers have been utilized in human life since the beginning of time as basic symbols. If Allah would give the symbols of life, then it would appear from the root of life. One of the life root symbols is a digital root. The natural numbers are 1,2,3,4, ..., or called counting numbers. The sums from natural numbers are called arithmetic numbers 1,3,6,10, ..., or triangular numbers [2].

From the dictionary of mathematics: number is an ancient primary character in this modern math application. In mathematics, a natural number (also called counting number) can mean either an element of the set $\{1, 2, 3, \dots\}$ (the positive integers) or an element of the set $\{0, 1, 2, 3, \dots\}$ (the non-negative integers). The former is generally used in number theory, while the latter is preferred in mathematical logic, set theory, and computer science. A more formal definition will follow [3].

There are two primary purposes that the natural numbers have: they can be used for counting ("there are three apples on the table"), and they can be used for ordering ("this is the 3rd largest city in the country"). The number theory studies properties of the natural numbers related to divisibility, such as the distribution of prime numbers [4].

2. THEORETICAL REVIEW

2.1 Significance and formula of the digital root

It helps to see the digital root of any positive integer n as the position n holds to the last multiple of nine to the left of n . For example, the digital root of 11 is 2, which means 11 is the second number after 9. The digital root of 23 is 5, this means that 23 is the fifth number after a multiple of nine to the left of 23; in this case, 18. The digital root of 2035 is 1, which means that $2035 - 1 = 2034$ is a multiple of nine [5].

The digital roots of $\{1,2,3,4,5,6,7,8\}$, which are the same digits themselves, reveal their position with respect to 0. The digital roots of nine and all of its multiples are nine all play the same role that zero plays for the integers from 1 to 8. It helps to think of the number nine and all its multiples as a kind of zero or zeros so that the other integers can reveal their position or digital roots with respect to them. This is in part the nature of the decimal system [6].

With this in mind, we may think of the digital root of the positive integer n as $S(n)$, defined by:

$$S(n) = n - \max_{0 < x \leq 9x} (9x < n)$$

which precisely says that

$$S(n) = n - 9 \left\lfloor \frac{n}{9} \right\rfloor$$

The function of Digital Root in Excel is: **(1+MOD(n-1, 9))**. This formula will give the digital root of n and assign the value 0 to all n which are multiples of nine. First, there are counting natural numbers. Second, there are arithmetic numbers. Third, there is a digital root. In this digital root, the arithmetic number will only have one digit in every form. Digital root is also an old fundamental function in Algebra and Maths [7].

A triangular number is the sum of the n natural numbers from 1 to n .

$$T_n = 1 + 2 + 3 + \dots + (n-1) + n = \frac{n(n+1)}{2} = \frac{n^2 + n}{2} = \binom{n+1}{2}.$$

Every triangular number is a binomial coefficient, as shown in the rightmost term of this formula: the n^{th} triangular is the number of distinct pairs selected from $n+1$ objects. In this form, it solves the 'handshake problem' of counting the number of handshakes if each person in a room full of $n+1$ people shakes hands once with each other person [8].

Table 1. God Number

No. Urut	1	2	3	4	5	6	7	8	9	10
Akar Bilangan	1	3	6	1	6	3	1	9	9	1
	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
	1	3	6	1+0	1+5	2+1	2+8	3+6	4+5	5+5
	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Jumlah	1	3	6	10	15	21	28	36	45	55
	1	1	1	1	1	1	1	1	1	1
		+	+	+	+	+	+	+	+	+
		2	2	2	2	2	2	2	2	2
			+	+	+	+	+	+	+	+
			3	3	3	3	3	3	3	3
				+	+	+	+	+	+	+
				4	4	4	4	4	4	4
					+	+	+	+	+	+
					5	5	5	5	5	5
						+	+	+	+	+
						6	6	6	6	6
							+	+	+	+
							7	7	7	7
								+	+	+
								8	8	8
									+	+
									9	9
										+
										10

Numbers 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,2

7,28,29,30,31,32,33,34,35,36,37,38,39,40.

Triangular Numbers

1, 3, 6, 10, 15, 21, 28, 36, 45, 55, 66, 78, 91, 105, 120, 136, 153, 171, 190, 210, 231, 253, 276, 300, 325, 351, 378, 406, 435, 465, 496, 528, 561, 595, 630, 666, 703, 741, 780, 820, 861, 903, 946, 990, 1035, 1081, 1128, 1176, 1225, 1275, 1326, 1378, 1431.

Digital Root 1,3,6,1,6,3,1,9,9,1,3,6,1,6,3,1,9,
9,1,3,6,1,6,3,1,9,9,1,3,6,1,6,3,1,9,9,1,3,6,1,6

The study of the Sinlammim method showed that the amount of numbers (1,2,3,4,5,6,7,8,9,10,12,13,...) represents numbers showing the evidence of Allah's greatness [9]. According to QS. Luqman [31]: 27.

Additionally, if all trees on earth were pens and the ocean (were ink) with seven oceans behind it to add to its (supply), yet would not the Words of Allah be exhausted (In the writing) for Allah is exalted in power, full of wisdom.

Those indefinite numbers which use all oceans and all forests will back to the highness of Allah. There are repetitions of digital root numbers from serial numbers and existing digital root [10].

Those digital roots can be grouped into three parts, which consist of 3 numbers.

Group I: 3,1,9

Group II: 9,1,3

Group III: 6,1,6.

From the group I, the digital root is the same as the symbols on the left hand. Number 3 (three, from 319) is the same as the number (three, Arabic), which pointed to the little finger, ring finger, and middle finger. Number 1 (one, from 319) is the same as number 1 (one, Arabic), which pointed to the forefinger. Accordingly, number 9 (nine, from 319) is the same as number 9 (nine, Arabic), which pointed to the thumb.

The digital root 319 relating to Holy Book 3.19 as al-Quran 3.19 (surah 3, ayah 19) says the religion beside Allah is Islam. The digital root is 913 in group III. Those numbers (913) can be seen on the right hand as numbers and letters. Letter in Arabic is written from right to left, then number 913 match with hijaiyah sin lam mim (س ل م, alphabet Arabic). Where 3 for alphabet sin (س, Arabic), 1 for alphabet lam (ل), and 9 for alphabet mim (م). Sinlammim is the word root of Islam, and Islam came from the word root of sin lam mim [11].

What is the big mystery of the digital root? The answer is group III, digital root 616. If digital root groups I and II (319 and 913) show the hidden symbol of Islam, then 616 must consist of the hidden symbol of Islam.

Number 616 can be seen as "Besides 1 is 6". If 1 is substituted with God and 6 is substituted with Islam, then 616 can be said, "Besides Allah is Islam" (remember al-Quran 3.19). Allah's beautiful names in other surahs (Asmaul Husna): 1.Allah, 2.Ar-Rahman, 3.Ar- Rahim, 4.Al-Malik, 5.Al-Quds, 6.As-Salam. Digital root 616 can be changed from these Beautiful Name, Allah for 1, and As-Salam for 6 (As-Salam can be derived as Islam).

The extreme conclusion for digital root 616 is the hidden number of 7. Number 616 consists of two natural numbers, which are 6 and 1. The digital root of 6 and 1 is 7 (seven where $6+1=7$). There is a sentence about the seal of 7 in the Holy Book of New testaments. Is this digital root 616 one of the seal of 7? Natural numbers that represent all these digital roots of 319 (group I), 913 (group II), and 616 (group III) are 1,3,6,9.

From these numbers 1,3,6, and 9, we can get its digital root as $1 + 3 + 6 + 9 = 19$, then $1 + 9 = 10$, then $1 + 0 = 1$. Therefore, the root of the digital root from natural numbers is 1. If 1 can be substituted with God, then the expression of these digital roots is that every single natural number is praying to God.

Where did Allah state that every single natural number is praying to God? See QS. Al-Kahfi [18]: 109, "Say: If the ocean were ink (wherewith to write out) the words of my Lord, sooner would the ocean be exhausted than would the words of my Lord, even if we added another ocean like it, for its aid."

1 3 6 9 (First Line, Digital Root)

1 8 1 0 9 (Second Line, Al-Quran surah 18 ayah 109)

This puzzle of digital root and al-Quran almost has the same form in arithmetic style. In column 1, the number is the same (1). In columns 2 and 3, the numbers have the same value in the digital root of 9 ($3+9$ and $8+1$ equal to 9). In column 4, there is a separate space by empty number for digital root and zero for al-Quran. Furthermore, in column 5, the numbers are the same (9).

The definition of Hahslm Theory (H Theory), according to [12] is:

1. Narrowly, H Theory is defined as the archetype theory by the dominant of three elements in a particular context at a five-dimensional invariant arrangement.
2. Widely, for the most common use, H Theory can be interpreted as a theory of the basic concepts in creation pattern with a particular relationship. H derived from the formula of Hahslm, Quran letter of Hjr, also stands for Huda or Holy.

And the meaning of H Theory:

1. A complete set of systems / holistic / integrated part that consist of three main elements, primary (creator / intermediary), secondary (creation / receiver), tertiary (worship / transmitter).
2. These three elements will meet the statement that the primary is the highest and secondary is below, and do it tertiary (God created human to worship).

It is necessary to deeply understand the ontology associated with Islam to know about the philosophy of H Theory, both literally and meaning. Further development in epistemology that Islamic institutions have Kaffah is presenting new terminology into a more comprehensive approach. In general philosophical, H Theory can be sentenced sequentially: the background of H Theory is Islamic values with the comprehensiveness concept through a balanced way to embody the meaning of worship in life.

This is following the Quran that reads 'silmi kaffah' to explain that the word 'silmi' is a derivation of the letter sin lam mim. The word root of sinlammim, in general, is one solution to penetrate the development of the concept in order to solve the fundamental problems. It was felt the need for a better method to balance the limitations of the methodology in the study of Islam.

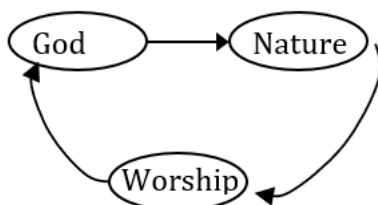
Figure 1 Posts Islam In The Human Hand



Source: Aziz, 2006

It is also in line with the current development of civilization that it deems necessary to find a bridge ground on existing civilization institutions by switching to matters related to the spiritual. Soon, humans ask for a better idea, sharper, and able to answer all aspects. This will be the impetus of proof that the H Theory also includes searching for identity regarding the simplest of Islamic knowledge that started from a human hand.

Figure 2 Kaffah Thinking in Islam



Source: Aziz, 2010

The figure of kaffah thinking in Islam above means that a comprehensive system must be worth Islam so that a kaffah system will consist of 3 main parts: God, Nature, and Worship. These three variables will undergo metamorphosis into a particular context of the focus topic. Nevertheless, the basic idea of a system or sub-system intact, it must consist of 3 things. H Theory approach can be developed in life, such as actions institutional development. By changing the first element of the God to action macro elements, then the second element is nature, which can be converted into an action microelement, and the third element is feedback can be converted into worship then transformed into action opportunities in life [13].

The basic word that consists of four letters (three letters + one letter) became the primary root word to form Islam's word. This basic word will then be written in a simple equation to prove that Islam is equal to alif sinlammim.

Function 1

Islam = Alif (Sin, Lam, Mim)

Where, Islam = I, Alif = A, Sin = S, Lam = L, Mim = M.

Formula:

$I = A(S, L, M)$

Now from the word Islam, the equation has four variables: alif, sin, lam, mim. These four variables will be used as benchmarks for the development of other formulas. There is a verse in the Qur'an, Surah Al-Hijr [15]: 87 [14]:

وَلَقَدْ ءَاتَيْنَاكَ سَبْعًا مِّنَ الْمَثَانِي وَالْقُرْءَانَ الْعَظِيمَ

"And We have certainly given you, [O Muhammad], seven of the often-repeated [verses] and the great Qur'an" (Q.S. Al-Hijr [15]: 87).

The formula obtained is the dimensions of time and space from H Theory above. Allah implicitly mentions that seven is repeated, then human civilization interpreted it after 14 centuries as a symbol of the time dimension from arguing the word of matsani or repeated. While the Quran is symbolized as a dimension of space divided into four forces, it is interpreted from the word of azhiim or deep, meaningful space. In science, the dimensions of space have been divided into four forces.

According to Roikhan [14] from verse 15.87, the theory obtained two main variables, 7 (Seven) and the Qur'an. Seven (7) is regarded as an absolute variable, and the Quran can be factored into 2,3,1,9. In multiply function, the result of $2 \times 3 \times 1 \times 9$ is 114. Therefore, the formula has five numbers, 7,2,3,1,9. The numbers are converted into a letter to make it easier to be read in a formula. It can be interpreted as 7 to A (Alif), 2 to h (Hanif), 3 to S (Sin), 1 to L (Lam), and 9 to M (Mim) from the table above, to finally get the AhSLM formula. It requires the dependent variable to make an equation, and the variable is H (Ha). Ha derived from the number 4. The number 4 is derived from the sum of independent variables: $2 + 3 + 7 + 1 + 9 = 22$. And 22 can be turned into digital root as $2 + 2 = 4$. Finally, there is an equation that $H = Ah(S, L, M)$. This formula can be read as everyday life; for example, H is life, then A reflects the corridor or boundary in the community, h reflects the balance of circumstances, S reflects the relationship with human and surrounding, L reflects the relationship with the creator of the universe, and M reflects the intangible relationship or natural chain. Variable M is elusive in life.

The equation found by the Muslim scholars in the form of Theory H or Hahslm can be a new concept to disclose mathematical science, which has not yet been discovered. The science that is still a mystery and has not been revealed is about the science of the beginning of life or the origin of the universe.

Physics theory concerning the beginning of the universe, for instance, is the Big Bang Theory. This theory is mentioned in the Quran Surat Al-Anbiya [21]: 30 with meaning: Do not the unbelievers see that the heavens and the earth were joined together (as one unit of creation) before We clove them asunder? We made from water every Living thing. will They not then believe? [15].

Islamic scientists explained that the Quran opens the initial veil of the universe in ratqan or a tangible thing such as a dot or a circle. Then this circle was separated into 2 (two) parts. Explanation about the separation from 1 (one) tangible thing into 2 (two) parts were stopped here, and it means there is no further description in a narrative for separation of 2 (two).

Modern scientists with empirical logic explain that there was a big bang from a very dense particle, which then led to all directions at the beginning of the universe. Moreover, the process of fractions into small pieces, then becomes several patterns. Some join into one block between the small fragments, and some stand-alone, and others can be broken again until it reaches formation like the universe today.

According to Aziz [16], with Theory H of the creation process, this universe occurred with an algorithm that is the same as the process of digital root Hahslm.

The process of creation of the universe, in Theory H:

1. There is a solid object in the form of a big dense dot or a circle that becomes the forerunner of the universe
2. This circle has a magnitude that is 360 degrees.
3. The circle separated into 2 (two) parts
4. The 360-degree circle is split multiplication between 72 and 5.

5. The particle group 72 are particles which are anti-matter or as a constant in a system
6. Particle group 5 is a particle that is material or better known as a variable in a system.
7. The material particle group or this variable can be further divided into 5 (five) sub-systems which consist of 3 (three) groups, such as:
 - a. Variable groups of subordinates in the form of a combination of 3 (three) sub-systems.
 - b. Variable groups of super ordination in the form of a single sub-system.
 - c. The median variable group in the form of 2 sub-systems that have different magnitudes with sub-ordination groups and super ordinations. The digital number for this median variable is not 1 (one), but 9 (nine) to describe groups of variables has differentiation and more bigger.

In the equation, the process of creating the universe is as follows:

Equation of circle = variable x constant (1)

Degree of Circle $360 = 72 \times 5$ (2)

The variables are then broken down into 3 (three) groups, arguing that 5 (five) are grouped into many groups. The word many or plural according to Arabic grammar as the Quranic language has the least amount of 3 (three). So that variables 5 (five) are grouped into 3 (three) parts, as follows:

Mathematic Variable lots = general variable + single variable + large variable (3)

Degree of Variable Lots: Five = three + one + large (4)

Numbers of Variable Lots: $5 = 3 + 1 + 9$ (5)

Variable five can be substituted into 3 (three) groups of variables 3, 1, and 9.

The creation equation for the universe becomes a combination of equations between (2) digit and (5) thing, which are as follows:

$H = 72 \times (3, 1, 9)$ (6)

With digital root with numbers 72319, then $7 + 2 + 3 + 1 + 9 = 22$ which is $2 + 2 = 4$. So that the digital root equation, H is obtained

$4 = 72 (319)$ (7)

Furthermore, this equation (7) turns out to be identical to the Hahslm equation, as described earlier. There are 3 (three) groups of pattern numbers in triangular numbers, such as 319, 913, and 616. Then these numbers represent 7 from the third group of 616 where $6+1=7$. Additionally, 2 comes from 319 and 913 that have the same numbers but appear differently. Furthermore, 319 is the representation of the first group, such as 319. Then appear representation number from these triangular numbers, 72319.

Triangular equation 72319 (8)

A comparison between the triangular number and the creation of the universe in number shows an identical equation in number. The consistency of numbers in these comparisons explains that the numbers' creator in triangular number and the numbers in creation of the universe is God's same.

3. CONCLUSION

God has also created an equation in mathematics. The first Allah Math to make the universe is 72×5 , described by Modern scientists as anti-matter and matter. This God Equation spreads into every single system. These numbers showed the consistency of creation by God.

Islamic approach from the root of the word such as the Sinlammim method used Arabic number data, which has already been internationalized from 1 to indefinite numbers (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, ...). These pattern numbers, known as triangular numbers, are 319, 913, 616. These numbers represent of number digit of 72319.

The universe creation has equation numbers: 472319, and so does modern mathematics with a group of root words as triangular numbers. These comparisons between the universe creation in Islam and triangular numbers by modern science represent the complex form from other science and knowledge ground to have the Universe Guidance Theory (UGT) where Islam has a meaning of answer theory of everything (rahmatan lil alamin).

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