

# Numbers Occupying Universal

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**Abstract:** Numbers are most important in day to day life. Even educated and uneducated people are used in different ways. Without numbers we don't count and calculate any thinking in anywhere. Here all numbers are formed by only ten digits that are 0(zero), 1(one), 2(two), 3(three), 4(four), 5(five), 6(six), 7(seven), 8(eight) and 9(nine). In this article explores the main concept is what the significance of these ten digits is in every human life and how they effect in daily life. **Approach:** The historical review of mathematics and analysis of simpler but accessible proofs can help show clearly the motivations behind the mathematicians work. In depth analysis work may be used to reveal parts passion, politics and dedication played in the study of numbers and construction of different patterns of digits.

**Keywords:** Digits, number patterns, mathematical proofs, Mathematics, Religions, number systems, daily life, astrology, numerology

## 1. Introduction

The numbers are very powerful and useful in a daily life. From the beginning our education is like alphabets and also numbers only without numbers our study is also not started and stated [1]. All these numbers infinite because their uses also like infinitely, these numbers are formed by only ten digits that are 0,1,2,3,4,5,6,7,8,9. Here 0 is the least digit and 9 is the highest digit and we prove zero is equal to 9 that means by using numerology any number can be represents only these digits so, according to this we add all digits in a number 0 and 9 are identities and there act as zeros therefore 0 and 9 are equal. For this explanation is given below.

$$1984=1+9+8+4=22=2+2=4$$

$$1084=1+0+8+4=13=1+3=4$$

From the above example 1984 is not equal to 1084 but according to the number express as digits there is only one digit from zero to ten so here both are 4, in general for any number can express as digit 0 and 9 are equal [4]. It can be expressed in many situations like mathematical, astrology, religions, medical, human body, relationship between human body and god and importance of time and etc.....Humans have studied numerous questions over time such as those related to mathematics yet why should the study of numbers and their properties be so important to us is not entirely understandable to all. The human history now shows that all primeval cultures had a concept and use for numbers. The numbers counted to up to three to the Hindus, Chinese, Mayan and Aztec, Egyptians and Roman's including others all appear to use secret language or numerals of sorts to represent numerical quantities in recordings [2]. The present day decimals can be attributed to the ancient Hindus including the use of the zero. The Hindus were the first to use zero as a place value and used the decimal system that we study today. In fact, the circle method used in modern study of numbers may be attributed to the Indian methods generating when solving the so called Diophantine equations. Anyone who needed to count a group of objects whether as complicated as counting the stars or more simply the number of toes a person has required some sort of numbering. Whichever

counting requiring more use than the ten fingers and toes of the one doing the counting needed a way to group numbers groups of 10 and is widely used around the world today. Throughout history cultures have used their own methodical way to group numbers; Babylonian sexagesimal system which used the basic grouping of 60 which can be reflected when measuring time and angles. Hindu decimal system is a new where simply body parts such as fingers and toes led to the use of 10 as a to some extent simpler system to use. The historical development of numbers and the proceeding human attraction with different bases alone is a physically powerful enough motivation and reason to study the properties of numbers. There needs to be some accepting for the systems used that functioned efficiently and then to develop, evolve and adapt to modern demands. As a culture that has an immense growing demand on numbers, there is a need improve constantly our understanding of the numbers we utilize every day (Ore, 1988; Al Mijalli, 2011).

In any field must use numbers even in computer field is deepened on 0 and 1 .It is known as binary digits these binary digits are led's entire world. In the computer language is also digits that are 0and 1, here 0 indicates fails and 1 truth. Not only in computers and mathematical very where we use these numbers. More important is in finance we must need numbers to calculate or analyze the data. Finally in astrology these numbers are more powerful because every planet can assign to one number like 1.Sun 2.moon 3.Mars4.mercury 5.gurudu6.sukurudu7.sani all these are days of the Week from Sunday to Saturday and also 8.Rahu 9.kethu.Total digits are used zero is equal to 9 only So that the digits are effect on human life like astrology and Numerology [3]. Next section we discuss about each digit Importance.

## 2. Importance of Each Digit

**2.1 About Number Zero:** The digit Zero is most powerful. It is introduced by Indian and this representation is like a circle. Zero is identity element with respect to addition; zero is one of the binary digit of computer language .zero gives a completeness of everything like Natural Numbers add zero we get Whole numbers whole

means complete. There are different words used for the number or concept of zero depending on the context. For the simple notion of lacking, the words nothing and none are often used. Sometimes the words naught and aught are used. Several sports have specific words for zero, such as nil in football, love in tennis and a duck in cricket. It is often called oh in the context of telephone numbers. Slang words for zero include zip, zilch, nada, and scratch. Duck egg and goose egg are also slang for zero. The origin of the modern decimal-based place value notation can be traced to the Aryabhatiya. 0 is neither positive nor negative. Addition:  $x + 0 = 0 + x = x$ . That is, 0 is an identity element (or neutral element) with respect to addition. Subtraction:  $x - 0 = x$  and  $0 - x = -x$ . Multiplication:  $x \cdot 0 = 0 \cdot x = 0$ . Division:  $\frac{0}{x} = 0$ , for nonzero  $x$ . Exponentiation:  $x^0 = \frac{x}{x} = 1$ . The exceptions were the mathematicians who were involved in recording astronomical data. Here we find the first use of the symbol which we recognize today as the notation for zero, for Greek astronomers began to use the symbol O. There are many theories why this particular notation was used.. zero has its importance in digital electronics(binary digits 0 and 1).Its important in mathematics to represent significant digits like 0986 and 9860 both are different where former has got trial zeroes and latter has got trailing zeroes that are used to represent significant digits in the number system.

**2.2 About Number One:** Before zero the first number is one even zero came first means one only. Normally one lies between zero and two. One, unit, unity, single, first etc are the different names of one. An *ace* is number one in playing cards. French playing cards are marked '1' instead of 'A'. There is only one of lots of things. There is only one planet Earth, there is only one Atlantic Ocean and there is only one you. All of these are unique. Number one is the number of the Sun. Number one is a lucky number for Aries and Leo. It is a male number. Number 1 represents strength. It is the number of confidence. One symbolizes the creative spirit and individuality. In any where the first is more important even in any competitive number one is recognized. You have explained the first sun sign, the idea of first person, and the longest word in English with only one vowel, one painting, and many more things. It was a very good experience to read about all these. In mathematical one is identity element with respect to multiplication. According to multiplication, division, exponential we use one we get one only or itself. 1 is the atomic number of hydrogen, and the atomic mass of its most common isotope. Period 1 of the periodic table consists of just two elements, hydrogen and helium. Group 1 of the periodic table consists of the alkali metals. There is number one position is always gives important in any where this will be like introduction.

$$\begin{aligned}
 1 \times 9 + 2 &= 11 \\
 12 \times 9 + 3 &= 111 \\
 123 \times 9 + 4 &= 1111 \\
 1234 \times 9 + 5 &= 11111 \\
 12345 \times 9 + 6 &= 111111 \\
 123456 \times 9 + 7 &= 1111111 \\
 1234567 \times 9 + 8 &= 11111111 \\
 12345678 \times 9 + 9 &= 111111111 \\
 123456789 \times 9 + 10 &= 1111111111
 \end{aligned}$$

**2.3 About Number two:** The number two is lies between one and three and also it very special number having main properties. It is an even number and definition of even number is divisible by 2 only it is also first even prime number. According to division by two having special it is exactly half of original. Two symbolizes partnership. Two is the number of balance, but also the number of conflict and opposition. Without the number two, the positive and negative could not exist. In Islam two angels follow each human and write down their good and bad deeds. The two is also know pair. In human being marriage means pair wife and husband not only that a body contains a pair of eyes, hands, legs, and hares like that. The number 2 vibration is considered feminine and extrovert and relates to the star sign Cancer. The ruling planet of 2 is the Moon. The 2 energy is caring and loving; however, they are also sensitive and may have trouble with their self-esteem. They like lots of friends around them and any quarrelling is very upsetting for them.

Sun	Light	Day	Good	Life
Moon	Dark	Night	Bad	Death

The binary system is used in computers.

For any number  $x$ :  $x + x = 2 \cdot x$  addition to multiplication  
 $x \cdot x = x^2$  multiplication to exponentiation  
 $x^x = x \uparrow 2$  exponentiation to titration.

**2.4 About Number Three:** The number 3 is lies between 2 and 4 and also first odd prime number. Number 3 resonates with the energies of optimism and joy, inspiration and creativity, speech and communication, good taste, imagination and intelligence, sociability and society, friendliness, kindness and compassion. Number 3 also relates to art, humors, energy, growth, expansion and the principles of increase, spontaneity, broad-minded thinking, synthesis, triad, heaven-human-earth, past-present-future, thought-word-action, demonstrates love through creative imagination, comprehensive, fulfillment, encouragement, assistance, talent and skills, culture, wit, a love of fun and pleasure, freedom-seeking, adventure, exuberance, brilliance, free-form, being brave, non-confrontational, free-form, rhythm, passion, surprise, sensitivity, self-expression, affability, enthusiasm, youthfulness, enlivenment, psychic ability, manifesting and manifestation. Number 3 resonates with the energies of the Ascended Masters and indicates that the Ascended Masters are around you, assisting when asked. The Ascended Masters help you to focus on the Divine spark within yourself and others, and assist with manifesting. They help you to find peace, clarity and love with in the letters C, L and U = 3 C is the numerical equivalent of the number 3 and represents creative energy. People with the initial of C are very talented and get along well with others and are quite social. Negatively, C people can be ruthless and cruel and sometimes lack empathy L is the numerical equivalent of the number 3 and represents creativity, communication and action. A person with the initial L is charitable, well-adjusted and friendly. Negatively, they can be somewhat accident prone. The letter U is the final true vowel in the alphabet and is the numerical equivalent of the number 3. The U person is very lucky in all ways.

**2.5 About Number Four:** The Number four is very important because it lies between 3 and 5 and this 4 can use in direction of a place and also it indicates 4 Vedas and also gives 4 heads of Brahma. Number 4 resonates with the vibrations and energies of practicality, organization and exactitude, service, patience, devotion, application, pragmatism, patriotism, dignity, trust, worthiness, endurance, loyalty, mastery, building solid foundations, conservatism, determination, production and hard work. Number 4 also relates to high morals, traditional values, honesty and integrity, inner-wisdom, security, self-control, loyalty, conscientiousness, reality and realistic values, stability and ability. Number 4 vibrates with the attributes of progress, management, justice, seriousness, discipline, system and order, maintenance, constructiveness, dependability, conviction, passion and drive. I believe the number 4 is derived from its place in creation because the physical universe was established and set in motion on the 4th day of the creation week. Even the 4th Commandment is related to God's resting from His creative work and this day of rest is commanded for His creatures that He created for His glory and that being the Sabbath day. The Hebrew word used in Genesis for "fourth" is "rēbiy'iy" and is interesting because it means "the fourth" or "four square" or the "fourth part" and the fourth commandment relates to the physical world in which God set aside for His creatures a day of rest as He Himself did on this day. There are four given directions on the earth. There is north, south, east, and west and these are set by God as a divine imperative. As in the Hebrew word for four or fourth "rēbiy'iy" there are four directions that someone can go from the point from where they are. The "four square" meaning of the Hebrew word for fourth makes us think about the four corners of the earth. There are also four directions that we can go in the physical universe; up, down, to the left and to the right. The so-called "fourth dimension" is sometimes called the tesseract which refers to the hypothetical fourth spatial dimension. Just as in the New Jerusalem that descends out of heaven, there were four rivers in the Garden of Eden.

**2.6 About Number Five:** The number 5 is the most dynamic and energetic of all the single-digit numbers. Five is the number of balance. Five symbolizes man, health and love. It combines the female number two with the male number three. Five is the number of marriage. The Pythagoreans thought of five as hieros gamos the marriage between heaven and earth. The number five symbolizes the four limbs and the head that controls the limbs. There are five senses: sight – hearing – taste – smell – touch. Number five is the number of Mercury. Number five is lucky for Gemini and Virgo. The Hierophant symbolizes peace and harmony. An earthworm has five hearts. In science, Boron has the atomic number 5. The Five Olympic Rings symbolize the five continents. The amulets are used as a magical protection against the evil eye. Hamsa means five. The amulet has no little finger, but two balanced thumbs, the eye in the palm protects against the evil eye. Five is the third prime number. The 5 may break off a relationship due to her restless nature, but while in a relationship she will not deceive her partner. However, when she is not in a relationship she considers herself free to date anyone she chooses and has no problem going out

with a different person every day of the week. The number 5 symbolizes God's grace, goodness and favor toward humans and is mentioned 318 times in Scripture.

**2.7 About Number Six:** The number 6 is a symbol of completeness. Number 6 symbolizes beauty and high ideals. The Pythagoreans acknowledged number 6 to be the first perfect number. In mathematics a perfect number is when all the numbers divisors excluding the number itself are added, the sum equals the number itself.  $1+2+3=6$ . Number 6 is the symbol of luck, the highest number of the dice. Sugar or candy marks the sixth year anniversary in western tradition. The number 6 is the symbol of Venus, the goddess of love. June is the sixth month. This may explain why so many consider the month of June to be a favorable time to get married. Every Braille cell is made up of six dots; two columns consisting of three dots on each side. Various dots are raised to specify different letters. The Braille system is used by the blind to read and write. The number 6 is the atomic number for carbon. There are six players on a volleyball team and an ice hockey team. The 6 is considered the most harmonious of all single-digit numbers, it is not without its flaws and upsets. The most important influence of the 6 is its loving and caring nature. Properly nicknamed the motherhood number, it is all about sacrificing, caring, healing, protecting and teaching others. No family or community can function without the power of the 6 to keep them together and safe. She is the glue that keeps a family or community together. Six is the only number that is both the sum and the product of three consecutive positive numbers. The six Indian seasons classified in the Hindu scriptures are 1. Vasanta Ritu or Spring 2. Grishma Ritu or Summer 3. Varsha Ritu or Monsoon 4. Sharad Ritu or autumn 5. Hemant Ritu or Pre-winter 6. Shishir / Shita Ritu or winter.

**2.8 About Number Seven:** 7 is a 'magical' vibration and is the number of the occultist and the esoteric. 7's are secretive, mysterious, stand-offish, intuitive and introspective. An unworldly attitude means most 7's need to be 'protected'. The 7 vibration represents rest, contemplation, spirituality, sensitivity, sympathy and mastery. 7 is a number of the 'mind'. Number 7 is considered a masculine energy as well as an introvert. The related planet is Mercury and it is related to the star sign Libra. The first cycle of 7 deals with the physical process. The second cycle from ages 7 to 14 is marked by the development of feelings and emotions. The third cycle from ages 14 to 21 focuses on the spiritual energy. This is with the 'light of spirit' begins to dawn into a maturing consciousness. The number 7 symbolizes humanity's deep inner-need to find depth, meaning and spiritual connection. When the needs of food, self-expression, material and domestic achievements have been met, the 7 energy turns to the deeper levels of life - to learn, to educate ourselves and to find purpose. The 7 vibration must continue studying the quest of why they are here. 7 ask the bigger questions. The 7 energy fears failing to achieve by their own standards and making mistakes. God created day 1. day and night, day 2. sky and the sea, day 3. vegetation and the land, day 4, Stars, moon and the sun, day 5, Sea creatures

including birds and the fish, day 6. Mankind and animals, and on the seventh day, God rested.

**2.9 About Number Eight:** Number 8 is the symbol of harmony and balance. Number 8 symbolizes the ability to make decisions. Number 8 symbolizes abundance and power. Number 8 is a very lucky number in China. In China eight is homonym for prosperity. The opening ceremony of the Summer Olympics in China began on 8/8/08 at 8 seconds and 8 minutes past 8 pm. Number eight is the number of Saturn. Number eight is lucky for Capricorn. Strength symbolizes inner strength and determination. Reversed it means lack of confidence. An octagon is a polygon that has eight sides. The number 8 is the atomic number for oxygen. Without oxygen there is human life.

Number 8 pattern:

$$\begin{aligned}9 \times 9 + 7 &= 88 \\98 \times 9 + 6 &= 888 \\987 \times 9 + 5 &= 8888 \\9876 \times 9 + 4 &= 88888 \\98765 \times 9 + 3 &= 888888 \\987654 \times 9 + 2 &= 8888888 \\9876543 \times 9 + 1 &= 88888888 \\98765432 \times 9 + 0 &= 888888888\end{aligned}$$

**3.0 About Number Nine:** The number nine is in number system 8 after and before 10 but this important is not like that, it is more special number. The number 9 is best luckily number and also most useful number. In Indian astrology the number 9 plays very important role, even the 9<sup>th</sup> house can give very bhagya in life and 9 can be equal to 0 because in numerology both having same count.  $9+1=10$  that is again  $1+0=1$ ,  $2+9=11$  that again  $1+1=2$  etc add any number to 9 that will be same so that 9 and 0 are equal. Many games are playing with numbers up to 9 for example Sudoku Game consisting of  $9 * 9 = 81$ . The number 9 is first composite and odd number and its applications are more in mathematics and astrology. The baby stays in the mother's womb for about 270 days, which, when you add the individual digits  $2 + 7 + 0$  adds up to 9 as well. Also, when you take any number and add 9 and you sum the individual digits of the result, the end result will be the number itself. e.g.:  $5 + 9 = 14 \Rightarrow 1 + 4 = 5$ . There are other interesting facts like the above for the specialty of the number 9. A human body having 9 gates and every human lies in mother womb in 9 months.

$$\begin{aligned}12345679 \times 9 &= 111111111 \\12345679 \times 18 &= 222222222 \\12345679 \times 27 &= 333333333 \\12345679 \times 36 &= 444444444 \\12345679 \times 45 &= 555555555 \\12345679 \times 54 &= 666666666 \\12345679 \times 63 &= 777777777 \\12345679 \times 72 &= 888888888 \\12345679 \times 81 &= 999999999\end{aligned}$$

### 3. Conclusion

In this article we conclude that the number is most important factor in universe. All the numbers are generated by combination of digits only. Our mathematics is completely based on these numbers. Even computer is simplifying by two digits only 0 and 1. So that we conclude numbers occupy the universe.

### References

- [1] The Universal History of Numbers: From Prehistory to the Invention of the Computer transl. David Bellos et al. London: The Harvill Press (1998): 394.
- [2] The Bible in the book of Genesis 1:1-31, and Genesis 2:1-3.
- [3] V. Venkateswara Rao.et.al. International Journal of Mathematics and its Applications Volume 4, Issue 2{C} (2016), 185{188. IJMAA Volume 4, Issue 2C (2016), 185-188.
- [4] V. Venkateswara Rao.et.al. International Journal of Mathematics Trends and Technology (IJMTT) – Volume 39 Number 3- (2016), 215-217