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# History of number system in maths for project

What is the history of number system. What is the history of maths.

The basic number 10 system we use is not something commonly speaking or speaking in our general education system; It is mostly given for granted that our numeric counting system consists of 0-9 figures, rolling in the next place value 10 when we exceed 9. This method of expression is taught from the early years and continues until the most High of mathematical thinking. But why? Why did it come to be so prolific in our modern base numeric system 10? How do other number systems work? These other number systems are used anywhere, and because they are no longer prevalent? All this and much more will be explored below. All kinds of people have had to find ways to express numbers from the first periods of time. There has always been a need for people to express a quantity, from the first uses to count animals or crops on a farm, to count money and people themselves as groups of people gathered to form cities and civilization. The first counting methods are designed to have been simply using your fingers, as your fingers are simple and convenient to use. However, more than there were for these ancient people had to count, more than using their hands as a method to keep track of amounts simply was not feasible. The image on the left is the Ishango Bone, found deep in Africa. The bone itself is dated as 20,000 years old and is one of the first examples of a tally system that comes into play. Scientists assumed that this bone was used to score days on a calendar, and is one of the first examples we currently have a tally system used. An older bone, known as "Lebombo Bone", dates back further between 44,200 and 43,000 years. According to the "Universal Mathematics Book", the 29 notches on the Lebambo Bone may have been used as a lunar phase counter. In this case African women may have been the first mathematicians because keeping track of menstrual cycles requires a lunar calendar. This makes the Lebambo bone the oldest mathematical artifact known in the world. Through the discovery of ancient artifacts like this we can see, even thousands of thousands of years in the past, the policeman needed a way to express quantity, and the Tally system was a first life step along that path. However, as you might expect, the Tally system is not perfect when it comes to accounting for all objects in a given space. Just how to count fingers quickly becomes overwhelming, using Tally signs becomes inflexible with larger and larger numbers. Counting for larger sheep groups with highs could be just as difficult as counting sheep. A solution to this problem existed in the Middle East, where small clay tokens were used to represent quantities. Different shapes Several raw materials, such as oil or sheep, and the token notches represented different values. The image to the right denotes a quantity of wheat, with circular notches representing one Wheat measure and wedges representing a small wheat measure. In this case, this token would represent four large measures and four small wheat measures. Another example here shows a clay token used for oil. The circular notches represent ten vessels, and the wedges represent one. This token would specifically represent 33 oil jars. Taken as these have taken the way to facilitate the easiest methods of inventory conservation and trade. Development of numerical systems Because the need to take into account the numbers of increased objects, we begin to see the development of number systems we know today, even if every civilization has developed their own counting methods. Egyptian Egyptian ancient numeral system had a writing system dating back to around 3000 A.C., and from this writing system, we have found the test of a number system. Their numerical system was a base 10 system, similar to what we have familiar with. The symbols on the right were used to indicate powers of ten up to 10,000,000. Over time, and with the introduction of papyrus, the numerical system has evolved to a more dynamic writing system that has allowed the expression of larger numbers using fewer symbols. Seen here, more symbols were added to indicate more numbers, such as the introduction of symbols for each single multiple of 100. Numbers like 9.9999, which originally would have taken 36 hieroglyphics to express, could now be expressed with 4 symbols. Babylonian numerical system Meanwhile, the Babylonians used a number 60 base number system, which means that every number of less than 60 needed his numerical symbol, as he saw on the left. As you can see, cluster of ten have been combined together to easily facilitate expression. However, the Babylonians did not have a symbol for zero. Interesting, the Babylonians didn't have a symbol for zero. For example, to express the number 60, the symbol for one would be used. A space would be included after the "1", leaving both numbers to research almost exactly. Although the 60 base seems too difficult to use, we can see how their numerical system strikes us up to this day, as in the 60 seconds and in the minutes of angular measurement, in the 180 degrees of a triangle, and in the 360 degrees of a circle . Arabic numerical systems The Arabic numerical system is the numerical system that we currently use today and was mainly made in India around the V-6th century. The numerical system and the zero concept, developed by the Indu' in India, spread slowly in other surrounding countries that had commercial and military activities with India, and the Arabs adopted it and modified it. The Arabs adopted it and modified. Even today, the Arabs call the numbers that use "Raḡam al-Hind", the Hindu numerical system. The aspects of the Arabic numeral system that have had the greatest impact on modern mathematics are the introduction of the decimal system and the inclusion of a symbol for zero. Summary Through the history of the human need to express amounts, we seeThe numerical systems used must have become more advanced to facilitate greater understanding among people. The system of Arabic numerals we use today has resulted as a result of different civilizations that join to trade with each other, which asked them to have a standardized method to communicate with each other. This video provides a simple summary of the history of numerical systems throughout history, if you want to investigate further. So, what is a numerical system? Simply put, a numerical system is a method to represent an amount or value. As it was discussed in the History section above, you could simply count using your own hands or use individual tally signs, but each has its limits. That is to say, each method has a very difficult time expressing large numbers (I imagine trying to count 1,000 individual tally signs). Because of this difficulty, numbers have received positions, which allow us to express numbers in very simple terms. Basic systems work using a position value system. Instead of relying indefinitely using Tally signs or creating a unique symbol for each number we may need, we use place values and a much smaller set of symbols to denote a large number of numbers. They work as such: once we have reached a certain value, we "rotoliamo" in the next value of the place and we start counting again, adding another check mark to the next value until we reach the last symbol, at that point "we spin" in the value of the place after that. For the basic number 10 system we use today, we can view how numbers are represented using the image on the right. Let's see that a larger number of 1,247 can be represented with less than four symbols due to the Place Value system. We see that a place 1 in the thousands of places represents a thousand blocks or individual tallies, at 2 in the hundreds of places represent two groups of 100 blocks, and so on. Below is the way in which the value of each position value is determined in a basic number 10 system. As we can see, each value of the place is simply 10x, with the value of X increasing as we add more numbers to the left. A 5 in the hundred place would give us 5\*1010, which would have been known as 500. Similarly, the same goes to the right, but on the contrary. The numbers on the right represent the value of X in 102 decreasing negative numbers. This chart shows us the values of the place on the right. One place 5 in the cent would mean we have 5\*10-2 which would be represented as 0.05. With this system, each number can be represented as a 0-9 digit string. Expansion of understanding to other systems of the base number Most ofn the previous paragraph it is taught to almost everyone in our modern society at a pretty young age. The ability to do any kind of math is based on the ability to recognize and manipulate the values in a given numerical system. However, numerical systems other than base 10 are not used almost as frequently, and therefore they are not designed as often. The bases of every every The numerical system remains the same as the basic numerical system 10. Below is the layout of the Base Number System 2, one of the most commonly used Base Number systems outside of Base 10. Here we can see that just as the Base 10 place values are made 10x, the Base 2 place values are made by 2x. A 1 in the place of 64 would mean we would have a number equal to 64, but it would be expressed as 1 000 000. If we wanted to represent a base 10 number in base 2, we would break that number down into the higher powers of 2 and put 1 in those fields. For example, 34 in Base 2 can be expressed as 32 + 2, both powers of 2. (25 + 21). As such, we would put a 1 in each respective position, leaving us with 100 010. A strange phenomenon occurs in all systems of basic numbers less than 10 many digits simply are not used. In base 2, for example, the only digits used are 0 and 1. Each subsequent number changes from 0 to 1 or vice versa. Thus, the digits 2-9 remain unused. The same applies to each of the other base number systems below 10 à the digits x-9 (where x is the base number system) are not used. We find a similar phenomenon happening in the opposite direction. All base number systems greater than 10 don't have enough digits between 0-9 to cover all the numbers we would use. We wouldn't be able to "roll" into the value of the next place until we reach x1, where x is the number system we're working with. This Schoolhouse Rock video discusses the basics of how a base 12 number system would handle not being able to use "10" and "11" as symbols to represent base 10 and 11 values. As shown in the video, in a Base 12 system, we should find a new way to express "10" and "11." Sometimes mathematicians will use Greek letters, but more often alphabetical letters will be used (for example, 10 and 11 would be represented as A and B respectively in a Base 12 system). This table shows both 10 and 11 are represented in Base 12 as well as the multiplication table would appear in such a system. Here is a link to an applet that allows the user to enter numbers to see how that number would be represented in a different Base Number System. In most of the world, the standard measurement system is the metric system, which uses the base 10 system. For each unit of measurement, whether it is distance (meters), volume (liters) or weight (grams), the prefixes on the right indicate which power of 10 the object belongs to. For example, 2 kilometers represents 2 \* 103, or 2000 meters. This unit of measurement is much easier to teach, memorize, and understand since our numerical system for most mathematical processes is located in Base 10, and there have been many major pressures over the last few decades to change the United States from the current one. imperial (which has no basis in any basic numerical system) to the metric system. Binary operating systems basic encoding instructions for computers arein binary code, which uses a Base 2 number system to send signals all to a computer. As mentioned above, a Base 2 number system consists of only two digits 0 and 1. The binary code takes advantage of it and sends signals using the basic system 2. The 0 and 1 in track represent OFF or ON respectively. In a transistor, a 0 represents no electricity flow, and 1 represents the electricity that is allowed to flow. In this way, numbers are physically represented within the calculation device, allowing calculation" (computerhope.com) A byte can store 8 bits of information, which means that a byte can store about 28 or 256 values. A kilobyte is about 1,004 bytes, a megabyte has 1,024 kilobytes, a gigabyte has 1,004 megabytes and a terabyte has 1,024 gigabytes. Hexagonal code In the computer encoding, we can use a Base 16 number system to represent colors and also using the Hexadecimal system. Computers represent colors in a combination of red, green and blue, and a computer can represent 256 shades of each of these colors. The hexagonal code for colors is in the #000000 shape, with each section of two numbers representing the shades of red, green and blue that are displayed respectively in the output. However, if we use a Base 10 system, the code would be 9 digits long. For example, the code for white would be #255255255. This is quite difficult to manipulate, but in a Base 16 system, 256 numbers can be represented using only 2 digits. The figures for Base 16 are 0-9 and A-F, which means that FF is the highest double digit number in Base 16 representing the number 255. So we have 256 numbers between 00-FF, which means the code for white ends up being #FFFFFF. The code for the background of this section is #A6A6A6A6A6A6. A6 in Base 10 is 166, which means that this background is 166 shade of red, green and blue. With Base 16, which represents information like color is much easier to manage. Binary. (n.d) Registered by treasury, D. J. (2004.) The universal book of mathematics: from Abacadabra to Zenos paradoxes, Edison, NJ: Book Sales Inc. Denise Schmandt-Besserat. (d.d.) Registered by Egyptian Numbers. (n.d) Registered by Lamb, E. (2014, 31 August) The ancient Babylonian numerical system had no zero. Retrieved by McCallum. 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