Mathematics was born in ancient times. Online calculators

Mathematics was born in ancient times. In those prehistoric times, people actively mastered the world around them, accumulated factual material and multiplied life experience. For a long time, the counting of ancient people was material, that is, it was carried out using sticks, stones, fingers and other things. Gradually, the primitive man came to understand that the number can be separated from its specific representative. Ancient people managed to understand that two apples and two stones, despite all their differences, have something in common, namely they occupy both hands of one person. So gradually the concept of natural numbers was formed, and by the end of the VII V centuries. BC e. and other basic postulates of mathematics.

The rapid development of mathematical science is due to the needs of human economic life. Agriculture, craft, exchange, trade, taxes, food supply, the creation of an army, the measurement of land holdings, vessel volumes and much more made people do counting and calculation. Over time, the accumulated knowledge was brought into a clear system, thanks to which a person was able to isolate special concepts, methods and methods for solving difficult problems, which subsequently formed the basis of modern mathematical science.

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Even in ancient times, long before the onset of our era, three basic concepts of mathematics were formulated: number, magnitude, and geometric figure. In the process of carefully counting and arranging animals killed in the hunt, made pots in the workshop, harvested, the concept of a natural number arose, both quantitative and ordinal. As a result of comparing the masses and volumes of various vessels and objects, man came to understand the concept of magnitude. In consequence of the study of the forms of products and objects, buildings and land, etc. people formed the concept of a geometric figure, which is part of the geometric (literally means measuring the earth) space, the formed abstract concepts were introduced into arithmetic operations on natural numbers. After some time, a relationship was established between natural numbers and quantities, as a result of which fractional numbers appeared. They were obtained in the case when the measurement result was not expressed as a natural number. Gradually, through observations and simple logical reasoning, people came to simple but inherently brilliant formulas for calculating geometric quantities -

lengths, areas, volumes. It follows from this that at that time arithmetic and geometry were considered parts of a single whole.

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Numbers - conventional signs for designating numbers.
The first figures appeared among the Egyptians and the Babylonians. For a number of peoples (ancient Greeks, Phoenicians, Jews, Syrians) letters of the alphabet served as numbers, a similar system was used in Russia until the 16th century. In the Middle Ages, Europe used the system of Roman numerals (I, II, III, IV, V, VI, etc.), based on the use of special characters for decimal places I = 1, X = 10, C = 100, M = 1000 and their halves V = 5, L = 50, D = 500. Modern figures (Arabic) were transferred to Europe by Arabs in the 13th century. (apparently from India) and became widespread from the 2nd floor. 15 century In the narrow sense of the word, numbers are the signs: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.