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The main professions in which mathematics is used

Each of the people, at home and at work, has to make certain calculations, sometimes simple, and sometimes difficult. In one case, a calculator is sufficient for calculations, in another - a special computer technology is needed. Sometimes these calculations require only simple mathematical operations, and sometimes complex formulas of algorithmic and trigonometric calculations are needed.

In addition, some calculations require the possession of methods of geometric measurements, understand information that is presented in the form of tables, diagrams and graphs, schemes of algorithms for performing various tasks. Even the ancients noticed that mathematics makes a person think constantly. And in support of this, the first "Russian University" M.V. Lomonosov said that mathematics should be taught because it brings the thoughts of a person into order.

Mathematics is called "the queen of all sciences", because the mathematical style of thinking and methods of thinking are applied not only in physics, technical and astronomical sciences, it is applied and, it would seem, in sciences as far from it as biology, chemistry, in economics, as well as in meteorology and archeology.

Therefore, it is difficult to overestimate the application of mathematics in the professions that are associated with the above and many other sciences, one way or another, using the "queen of all sciences."

Mathematics in the profession of an accountant.

When suddenly asked the question, in which professions need mathematics, the first thing that comes to mind is, of course, the profession of an accountant. Here, as they say, you need to be good mathematicians. From their mathematical abilities in some cases depends the fate of large companies and firms. Why should an accountant make a mistake in calculating tax deductions or charging employees? In the first case, it is penalties from the tax authorities, or even a criminal case from the prosecutor's office, and in the second - scandal and loss of reputation of the organization.

Mathematics in the technical professions.

This is the area closest to mathematics. Engineers combine in their activity the theoretical and empirical experience, developed over the years. Having a clear mind and scientific basis, they create ever new elements of our modernity, ranging from universal household devices to space vehicles. On their shoulders calculation, planning and erection of buildings, roads, bridges and so on.

An engineer is a too common name for a profession. Connected with mathematics directly, engineers were divided into many specialties of narrow directions. All projects prior to practical implementation are endless calculations and calculations performed using special formulas describing certain characteristics of materials under separate conditions. All of them are again painted in the form of mathematical expressions.

Mathematics in the profession of an architect.

The main task of the architect is to control the construction works as completely as possible. He also creates a plan for erection and makes adjustments to it in the course of the action, depending on the needs. All the documentation that is under construction includes mathematical calculations that describe not only the desired result, but also the characteristics of the materials used.

Mathematics in the profession of weather forecasters.

Listing professions related to mathematics, it is worth mentioning weather forecasters. Weather forecasters are people who are similar in their activities to meteorologists, the only ones that are engaged in the study of natural processes and a more superficial primary analysis, while the main responsibility of weather forecasters is the compilation of forecasts.

Studying the profession with mathematics, it should be noted that it is not enough to be a brilliant theoretician. We need to develop strategic skills, that is, the ability to think a few steps ahead. In other words, it looks like a game of chess, only with the elements, and, depending on the region, the principle of "game" is changing. Well, what game can be more mathematical than chess?

Mathematics in the profession of analyst.

Mathematics in professions related to analytics is necessary and important and in all its diversity. These people work with information. Their duties include: the correct and prompt collection of current data; processing taking into account the current situation; the forecast of events that can occur.

The second point relies entirely on mathematical calculations. In the course of mathematical analysis there exists and actively develops such an area as mathematics in economics. It allows you to collect effective portfolios of shares, relying on the laws of mathematical statistics. Specialists of this industry are now at the peak of popularity, they are valued and awaited in companies that conduct financial transactions, insurance companies, banks and other organizations.

Mathematics in the profession of a teacher.

The main role played by mathematics in the profession of the teacher is to love this science and instill this love to its students. We will not talk about the role of mathematics in absolutely all school disciplines where a solution of examples or problems is required.

Even at singing lessons, studying or reproducing one or another musical intonation or chord, everything is done by counting the bars in order to create a harmonious, symphonic sound.

All these specialties are inextricably linked with mathematics, but in general one can say that our whole life is connected with this science. Just the above categories of people profound knowledge of mathematics makes it possible to deal with their favorite business. But, without knowing mathematics in general, we could not normally live in the modern world. The account is needed both to the seller in the store, and to the office manager, and to the turner, though to a lesser extent than the engineer or scientist. Without knowledge of the elementary foundations of mathematics, we can hardly be full members of society.