

Домашнее задание для групп 2 -го курса - № 203

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Дисциплина: иностраный язык (английский)

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Задание . Прочитайте текст, выполните задания .

The Metric System

Physics is a science based on exact measurement, so we all must be familiar with commonly used units of measurements. There are four basic concepts: length, mass, temperature and time. The units used to measure them are called fundamental units. There are two widely used sets of fundamental units: the Metric System and the English System. The Metric System or the International System is based on metric units. Using metric units length is usually measured in millimetres, centimetres, metres or kilometres; time is measured in seconds, minutes or hours; and mass is measured in grammes or kilogrammes. The English System uses the foot, yard and mile as units of length; the ounce, pound and ton as units of force and the second as the unit of time. Although the UK and the USA officially adopted the Metric System of units, but in practice they still widely use the English System. The chief advantage of the Metric System is that all units are divided into 10 or 100 parts. It is well known, these units are easier to manipulate in the addition, subtraction, multiplication and division. This system was invented in France and accepted universally in science. Scientists have produced a code of standard symbols and to simplify the representation of units a standard list of abbreviations has been adopted. Scales to measure the temperature are also different. Centigrade scale is used mostly in Europe. It is such a scale, in which water freezes at zero and boils at 100 degrees. It is shown by the symbol C. In America, Fahrenheit scale is used to measure the temperature. It is such a scale in which water freezes at 32 degrees and boils at 212 degrees.

Task 1. Answer the questions.

What units are used to measure length, mass, temperature and time? 2. What is the difference between the Metric System and the English System? 3. What is the advantage of the Metric System? 4. How can we represent units of measurement? 5. What scales of measuring the temperature do people use in America and Europe?

Task 2. Fill in the table

Basic concepts	Metric system	English system	American system

Task 3. Match the abbreviations below with their meanings (1-13).

in kg gal lb ft F oz t l C m³ cm cu ft

1.

1) ounce (=28.3g)	8) kilogram
2) gallon (= 3.78l)	9) inch (= 2.54cm)
3) ton/tonne	10) cubic metre
4) Fahrenheit	11) pound (= 453.6g)
5) foot (30.48cm)	12) cubic foot
6) Celcius	13) litre
7) centimetre	