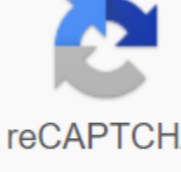


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Among the existing units of measurement length, the one that is considered the official International System of Units (SI) is the Metro. This measure represents its multiples and submults. The short meters are a kilometer (km), a henometer (hmm) and a decometer (dam), and the armpts of a decimeter (dm), a centimeter (cm) and a millimeter (mm). Read also: Conversion Unit: Learn how to do it in this text, let's take a closer look at these units. We will also teach you how to turn one unit into another, in addition to addressing some exercises on the subject. Short and armpts of the metro – multiples of metro: Kilometer (km) – One kilometer equals 1000 meters, i.e. 1 meter x 1000 and 1 kilometer. Henometer (hm) – henometer is equivalent to 100 meters, i.e. 1 meter x 100 and 1 henometer. The decometer (dam) – Decameter is equivalent to 10 meters, i.e. 1 meter x 10 and 1 demeter. Don't stop now... There's more after the :) – of the armpts of the meter mm (mm) – Millimeter is equivalent to dividing a meter into 1000 equal parts, i.e. 1 meter: 1000 and 1 mm. Centimeter (cm) – centimeter is equivalent to dividing a meter into 100 equal parts, i.e. 1 meter: 100 and 1 centimeter. The decimeter (dm) – Decimeter is equivalent to dividing a meter into 10 equal parts, i.e. 1 meter: 10 and 1 decimeter. Examples We will roll up blocks of measures, to follow the metro: a) 10 dam We know that 1 dam equals 10 m, then 10 dams equal: 1 dam 10 m 10 m dam and 100 m b) 2 km In 1 km, we have 1000 m, then in 2 km, we will have a double, that is 2000 m. We have 100m, so at 35mm, we're going to have 35 x 100m. That is 3500 m. d) 4 cm Similarly, we know that in 1 cm, we have 0.01 m. So in 4 cm, we will have 4 x 0.01 m, that is 0.04 m and) 2000 mm Last, in 1 mm, we have 0.001 meters; 2000 mm, we will have 2000 x 0.001 m and 2 m. See. also: Converting units of length measurements to perform measurements of units derived from a meter, we can rely on the following table: Examples a) Conversion of 6 cm to meters. According to the table, to turn a unit of centimeters into meters, simply divide the number by 10 in half, which is equivalent to split by 100. See: 6: 10 - 0.6 0.6: 10 - 0.06 m. See. 6: 100 and 0.06 m. 6 cm – 0.06 m b) Turn 100 mm to centimeters. Again following the table, see what is enough to divide the number by 10 times: 100: 10 and 10 cm 100 mm – 10 cm Measurement units are standardization in order to facilitate the record of sizes. Issue 1 - Two cousins go to school every day on public transport. The bus stop is 350 feet from the cousins' school. Knowing that the distance they have traveled inside the bus kilometers, determine how many meters they walk a day. The total number of people passing by them is 5 km and 100 m. To better express this distance, we must follow what was proposed in the statement, that is, to provide the distance traveled in meters. To turn kilometers into meters, we can use the table. See what's for this, just multiply 5 by 10 three times or multiply 5 by 1000, since: 10 x 10 x 10 x 1000 So 5 km – 5 x 1000 and 5000m. Cousins walk 5100 meters a day. Published: Robson Louis You are in the original measure of length ◊ each unit length 10 times larger than the device immediately below. Note the following conversions: Turn 16,584hm per m. To turn hm into m (two positions on the right), we must multiply by 100 (10 x 10). 16,584 x 100 = 1658.4 le: 16,584hm and 1658.4 m Turn 1463 dams into see. To turn the dam into a cm (three positions on the right), must be multiplied by 1000 (10 x 10 x 10). 1463 x 1000 and 1463 i.e.: 1,463 dramas and 1463 cm. Turn 176.9 m into a dam. To turn the m into a dam (position on the left), we must divide by 10. 176.9 : 10 17.69 u either: 176.9m and 17.69dam To turn m into km (three positions left) we have to divide into 1000. 978 : 1000 and 0.978 i.e. 978m and 0.978 km. Note: To allow an expression formed in terms with different units, we must first convert all of them into one block to then perform operations. Tip: Use our online converter to transform between different dimensions. How to refer: Measurements of length only in mathematics. Virtuous Information Technology, 1998-2020. Consultation 14/10/2020 at 12:09. Available online a fairly repetitive situation in everyday conversations is a matter of close or far. For example, if you say that Florianopolis is near Porto Alegre, it seems strange. But if you add another city and say that Florianopolis is closer to Porto Alegre than Sao Paulo, it would make sense, wouldn't it? The distance range between one point and the other is also called length measurements. Often, for calculation purposes or even for better distance assessment you will travel you need to make a conversion. These measurement conversions can be made in a variety of ways, and that's what we'll see now. Let's go together? Units measuring length there are different units of measurement associated with length. If we want to refer to the distance between cities, we use a kilometer. If we want to check the length of the table, we use a centimeter. Already if we want to measure the size of the block tennis, we use the subway. It is important to keep in mind that the counter is the main unit of length measurements. But what does that mean? This means that in the International System it is the main unit, one might say, at the time of transformation. The decometer, henometer and kilometer are multiples of a meter, because to convert one unit into meters for each of them simply multiply by 10. The decimeter, centimeter and millimeter, are submultipl. Let's see below how this multiplication happens. Converting Measures To convert a unit of measurement into another unit, we first need to understand that they follow orders. Short subways are the ones that correspond to long distances. Submultiples correspond to short distances. See table: Figure 1: Transformation from km to mm. Transformation from one unit of measurement to another can be read in two ways. First, we can remember the table above and during the conversion, using multiplication or division by 10 as a tool. Note the example: Example 1: (a) Conversion 2 km to m: note that the block of the kilometer is to the left of the table. To get to the subway, we multiply by 3 times by 10. 2 km x 10 x 20 x x 10 x 200 Dam 200 Dam x 10 x 2000 meters Logo: 2 Km equals 2000 meters b) Conversion 40 dm into a dam: to convert 40 decimeters, the block that is on the left (submultable) into demeters, the block that is on the right (several), we have to divide by 10. 40 dm, divided into 10 and 4 m 4 m, divided into 10 and 0.4 dam logo, 40 decimeters corresponds to 0.4 demeter. Converting the length of the area and the volume of measurements you should notice that so far we are working with the length of units from one point to another, right? We can also make these transformations to measure area and volume. But pay attention! Since these are two- and three-dimensional measurements, the transformation is done not by multiplying by 10, but by a measure corresponding to the measure calculated. The square conversion table measures To transform the area of the measure, for example, we use a square meter as a basic measure. Since it is raised to exhibitor 2, all conversions are made by multiplying or dividing into 10 squares. See the table: Figure 2: Conversion from km2 to mm2 Example 2: Block in the city area of Sao Paulo is 0.6 hm2. Calculate the measure of the block in square meters. 0.6 x 2 x 102 and 60 dams 2 60 dams x 102 6000 m2 Table conversion volume measurements When we need to convert measurements of volume, we use as a fundamental measurement of the cubic meter. Since it is raised to exhibitor 3, all conversions are made by multiplying or dividing by 10 to the cube. See table: Figure 3: Transformation km3 to mm3 Example 3: The refrigerant can hold 550 cm3 of liquid. How much liquid is expressed in dm3? 550 cm3, divided into 103 and 0.55 dm3 Want to supplement your data today? Take a look at Professor Angela's channel, I bet her video will give you another promising Exercise issue 01) The London Eye is a huge Ferris wheel in the English capital. As one of the monuments built to celebrate the entry of the third millennium, it is also known as the Millennium Wheel. A Brazilian tourist visiting England asked a Londoner the diameter (highlighted in the image) of the millennium wheel, and he replied that it was 443 feet. Figure 4: London Eye. Available in: www.mapadelondres.org. Available: May 14, 2015 (adapted). Unaccustomed to the foot and wanting to satisfy his curiosity, this tourist consulted with the guide to measuring units and found that 1 foot equals 12 inches, and 1 inch equals 2.54 cm. After some conversion calculations the tourist was surprised by the result received in meters. What is the closest approach to the diameter of the Millennium Wheel in meters? a) 53 b) 94 (c) 113 g) 135 e) 145 Gab: D Share: Share: Share: Share: Share:

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