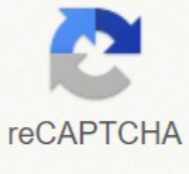




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Metric system measurement conversions worksheet answers

To convert metric measurements to United States standard system measurements, you have two options. You can use mathematics and calculate the answer or use an online conversion tool to find the answer for you. The math requires only a simple multiplication problem to turn a metric size to standard size. Metric to Inches Conversion To determine how many inches you have when the number is presented in millimeters, multiply the number of millimeters with the number 0.03937. This number is used because one millimeter is the same thing as 0.03937 inches, according to MCWDN. For example, the formula to turn for 305 millimeters into inches would be 305 millimeters x 0.03937=12.00785 inches. A one-foot ruler is very close to the length of 305 millimeters if numbers are rounded up to the nearest tenth. Milliliters to Pounds One milliliter is equal to 0.0022 pounds, so to convert milliliters to pounds, you multiply the number of milliliters with the number 0.0022. Using the number 305 again, to represent the milliliters, the formula to turn 305 milliliters to pounds would be 305 milliliters x 0.0022= .671. To put it another way, one pound of water equals 453.59 milliliters, according to Ninja Units. However, because liters are a measure of volume, a more accurate way to describe it would be to say one milliliter is equal to 0.00422675 cups. Milligrams to Pounds or Ounces Like milliliters, milligrams can be converted to pounds, although milliliters are a measure of volume while milligrams are a measure of weight, according to Registered Nursing. So, milligrams convert more accurately to pounds than milliliters. Using 305 as the example, 305 milligrams equal 0.01075856 ounces. Based on the Number 10 The metric system is based on a measure of 10, so to move from one unit to another, you can move the decimal point left or right. If you're looking at metric conversion tables, you can see that the decimal point moves in accordance with increases or decreases in size. Using 10 as a base number simplifies the math when compared to the U.S. standard system that includes increments expressed in fractional form. Calculators That Convert Metric to Standard Using an online conversion calculator is another way to convert metric measurements to standard ones quickly. If converting length, for example, use a millimeters to inches calculator. For measures of volume, use a milliliters to cups calculator, and to convert weight, use a milligrams to ounces calculator. Some calculators, such as ones to convert volume, will also offer results for weight or mass, giving the impression that volume and mass or weight mean the same thing when they don't. MORE FROM QUESTIONS ANSWERED.NET Watch Yolanda explore various objects that weigh ounces, pounds, and tons. At one point, she even turns into a Walrus - which on average weigh about 2000 lbs (or one ton!) Other highlights in this video include finding treasure, playing ball, and even a cameo by a REALLY hip nun driving a sports car. CLICK HERE to play NUMBEROCK's printable game, create a wall-sized poster, and get illustrated worksheets, word problems, and more for inquiring students who will be unusually motivated after watch Our grade 5 measurement worksheets give students practice in converting between different measurement units for length, mass and volume and in converting units of measurement between the customary and metric systems. Browse all of our measurement worksheets, from "bigger vs smaller" to the measurement of length, weight, capacity and temperature in customary and metric units. You are here: Home → Worksheets → Metric measuring Create an unlimited supply of worksheets for conversion of metric measuring units for grades 2-7. The worksheets can be made in html or PDF format - both are easy to print. You can also customize them using the generator below. Conversions between measuring units are studied all through elementary school. Starting typically in grade 2 or 3, children practice easy conversions, such as changing a bigger unit into smaller units (4 cm into 40 mm) and the other way around (300 cm = 3 m). Later on they learn how to use decimal numbers in the conversions. Since the metric system is based on number 10, conversions between the units are very easy: they only involve multiplying and dividing by 10, 100, 1000, etc. On this page you will find metric unit worksheets for: Grades 2-3 Grade 4 Grade 5 Grades 6-7 Metric units formed with prefixes Basic instructions for the worksheets Each worksheet is randomly generated and thus unique. The answer key is automatically generated and is placed on the second page of the file. You can generate the worksheets either in html or PDF format - both are easy to print. To get the PDF worksheet, simply push the button titled "Create PDF" or "Make PDF worksheet". To get the worksheet in html format, push the button "View in browser" or "Make html worksheet". This has the advantage that you can save the worksheet directly from your browser (choose File → Save) and then edit it in Word or other word processing program. Sometimes the generated worksheet is not exactly what you want. Just try again! To get a different worksheet using the same options: PDF format: come back to this page and push the button again. HTML format: simply refresh the worksheet page in your browser window. The conversions in the worksheet below are easy, as they only involve converting a larger unit into smaller units (such as 3 m = _____ cm) or writing a multiple of ten of the smaller unit in terms of the larger unit (such as 50 mm = _____ cm). Whole centimeters and millimeters (3 cm = _____ mm or 70 mm = _____ cm) View in browser Create PDF Whole meters and centimeters (3 m = _____ cm or 500 cm = _____ m) View in browser Create PDF Whole kilometers and meters (7 km = _____ m or 1,000 m = _____ km) View in browser Create PDF Kilometers, meters, and centimeters (3 km = _____ m or 100 cm = _____ m) View in browser Create PDF Meters, centimeters, and millimeters (3 m = _____ cm or 40 mm = _____ cm) View in browser Create PDF Whole kilograms and grams (8 kg = _____ g or 9,000 g = _____ kg) View in browser Create PDF Whole liters and milliliters (6 L = _____ ml or 6,000 ml = _____ L) View in browser Create PDF Mixed practice of all metric units in this section (mm, cm, m, kg, g, L, ml) View in browser Create PDF Grade 4 Convert between centimeters and millimeters (3 cm 4 mm = _____ mm or 72 mm = _____ cm _____ mm) View in browser Create PDF Convert between meters and centimeters (3 m 24 cm = _____ cm or 748 cm = _____ m _____ cm) View in browser Create PDF Meters, centimeters, and millimeters (3 m 4 cm = _____ cm or 72 mm = _____ cm _____ mm) View in browser Create PDF Convert between kilograms and grams (4 kg 900 g = _____ g or 2,490 g = _____ kg _____ g) View in browser Create PDF Convert between liters and milliliters (6 L 250 ml = _____ ml or 2,439 ml = _____ L _____ ml) View in browser Create PDF Mixed practice of all metric units in this section (mm, cm, m, kg, g, L, ml) View in browser Create PDF Mixed practice - easy (mm, cm, m, km) View in browser Create PDF Mixed practice - easy (mm, cm, m, km, kg, g, L, ml) View in browser Create PDF Grade 5 In grade 5, students use decimal numbers with the units of measurement. They convert for example 2.8 km into 2,800 m or 165 ml into 0.165 L. Grades 6-7 In grades 6 and 7, students continue working with decimal numbers in the conversions. They also study the various units formed with prefixes at least from milli to kilo, such as millimeter, centimeter, decimeter, meter, dekameter, hectometer, and kilometer. The metric system: units with prefixes The worksheet below involve converting between a range of metric units with prefixes milli-, centi-, deci-, (basic unit), deka-, hecto-, and kilo-. Metric system: convert between the units of length (mm, cm, dm, m, dam, hm, km) View in browser Create PDF Metric system: convert between the units of weight (mg, cg, dg, g, dag, hg, kg) View in browser Create PDF Metric system: convert between the units of volume (ml, cl, dl, L, dal, hl, kl) View in browser Create PDF Metric system: convert between the units of length, weight, and volume View in browser Create PDF Use the generator to make customized worksheets for conversions between measuring units. You can choose to include inches, feet, yards, miles, ounces, cups, pints, quarts, gallons, ounces, pounds, millimeters, centimeters, meters, kilometers, grams, kilograms, liters, and milliliters. You can also make worksheets for the metric system: units with the prefixes milli, centi, deci, deka, hecto, and kilo. Measuring Units Worksheets Level of difficulty: 1 (e.g. 2 ft = _____ in or 5 L = _____ ml) 2 (e.g. 25 in = _____ ft _____ in) 3 (e.g. 218 in = _____ ft _____ in) 4 (always using decimals, e.g. 5.77 ft = _____ in or 9.32 m = _____ cm) The levels of difficulty work a little differently depending on whether you choose individual units or conversions between all metric units. Please check what their effect are by making a worksheet, and then come back to this page by using the 'back' button on your browser. Decimal digits: Maximum number of decimals used for the smaller unit: 0 1 2 3 4 5 6 Maximum number of decimals used for the larger unit: 0 1 2 3 4 5 6 Round answers to 0 1 2 3 4 5 6 digits Again, the decimal digits work a little differently depending on the level of difficulty and type of conversions chosen. Some difficulty levels for certain type of conversions will not accept decimal digits at all. Please check what their effect are by making a worksheet, and then come back to this page by using the 'back' button on your browser. Conversions between individual units - check any number of these: km, hm, dam, m, dm, cm, mm kg, hg, dag, g, dg, cg, mg kl, hl, dal, L, dl, cl, ml Page orientation: Portrait Landscape (PDF worksheet only) Font: Arial Courier Courier New Helvetica sans-serif Times New Roman Verdana Font Size: 8pt 9pt 10pt 11pt 12pt 13pt 14pt 16pt 18pt 24pt Cell Padding: Borders: Extra vertical space below the problems: lines Additional title & instructions (HTML allowed) Key to Measurement workbooks include a variety of hands-on experiences related to the customary units of measurement. Group projects are included in addition to numerous individual activities. In Book 1, students learn how a linear measurement system is developed and then do activities related to measuring length. Book 2 focuses on length, perimeter, and area measures. In Book 3, the concept of area is further developed, and students are introduced to volume. Book 4 covers a variety of topics. Students experiment with weighing objects and measuring capacity, and they also learn about temperature and time. => Learn more

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