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Metric Unit Conversion - Length

Example 1 : 23.5 cm = _____ mm

1 cm = 10 mm
23.5 cm = 23.5 × 10
= 235 mm

Example 2 : 235 mm = _____ cm

10 mm = 1 cm
235 mm = $\frac{235}{10}$
= 23.5 cm

Convert the following centimeters (cm) to millimeters (mm).

1) 51.5 cm = _____ mm	2) 23.32 cm = _____ mm
3) 41 cm = _____ mm	4) 77 cm = _____ mm
5) 96.6 cm = _____ mm	6) 13.74 cm = _____ mm
7) 8.26 cm = _____ mm	8) 62.2 cm = _____ mm

Convert the following millimeters (mm) to centimeters (cm).

9) 890 mm = _____ cm	10) 482.1 mm = _____ cm
11) 41.2 mm = _____ cm	12) 364 mm = _____ cm
13) 838 mm = _____ cm	14) 91.23 mm = _____ cm
15) 637 mm = _____ cm	16) 212.2 mm = _____ cm

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Units of length: inches, feet, yards and miles

Grade 4 Measurement Worksheet

1.

Which unit would you use to measure the length of a bath tub?

a. inches

b. feet

c. yards

d. miles
2.

Which unit would you use to measure the distance between two cities?

a. inches

b. feet

c. yards

d. miles
3.

Which unit would you use to measure the height of a man?

a. inches

b. feet

c. yards

d. miles
4.

Which unit would you use to measure the length of running track?

a. inches

b. feet

c. yards

d. miles
5.

Which unit would you use to measure the length of ruler?

a. inches

b. feet

c. yards

d. miles
6.

Which unit would you use to measure the length of measuring tape?

a. inches

b. feet

c. yards

d. miles
7.

Which unit would you use to measure the waist of a person?

a. inches

b. feet

c. yards

d. miles

Metric Measurements

1,000

1,000

1,000

mm

cm

mm

1,000

1,000

1,000

Directions: Complete the table below.

cm	mm
1 cm	10 mm
2 cm	20 mm
3 cm	30 mm
4 cm	40 mm
5 cm	50 mm
6 cm	60 mm
7 cm	70 mm
8 cm	80 mm
9 cm	90 mm
10 cm	100 mm

m	cm
1 m	100 cm
2 m	200 cm
3 m	300 cm
4 m	400 cm
5 m	500 cm
6 m	600 cm
7 m	700 cm
8 m	800 cm
9 m	900 cm
10 m	1,000 cm

km	m
1 km	1,000 m
2 km	2,000 m
3 km	3,000 m
4 km	4,000 m
5 km	5,000 m
6 km	6,000 m
7 km	7,000 m
8 km	8,000 m
9 km	9,000 m
10 km	10,000 m

m	cm
1 m	100 cm
2 m	200 cm
3 m	300 cm
4 m	400 cm
5 m	500 cm
6 m	600 cm
7 m	700 cm
8 m	800 cm
9 m	900 cm
10 m	1,000 cm

Customary Unit Conversion
Volume 1
Math Worksheet 1

Name: _____

Solve the unit conversion problem by cross cancelling units.

10 cups = as pints	$\frac{10\text{ c}}{1} \times \frac{1\text{ pt}}{2\text{ c}} = 5\text{ pt}$
10 cups = as ounces	$\frac{10\text{ c}}{1} \times \frac{8\text{ oz}}{1\text{ c}} = 80\text{ oz}$
8 gallons = as quarts	$\frac{8\text{ gal}}{1} \times \frac{4\text{ qt}}{1\text{ gal}} = 32\text{ qt}$
9 cups = as ounces	$\frac{9\text{ c}}{1} \times \frac{8\text{ oz}}{1\text{ c}} = 72\text{ oz}$
9 quarts = as pints	$\frac{9\text{ qt}}{1} \times \frac{2\text{ pt}}{1\text{ qt}} = 18\text{ pt}$
2 cups = as pints	$\frac{2\text{ c}}{1} \times \frac{1\text{ pt}}{2\text{ c}} = 1\text{ pt}$
6 pints = as quarts	$\frac{6\text{ pt}}{1} \times \frac{1\text{ qt}}{2\text{ pt}} = 3\text{ qt}$
64 ounces = as cups	$\frac{64\text{ oz}}{1} \times \frac{1\text{ c}}{8\text{ oz}} = 8\text{ c}$
4 quarts = as pints	$\frac{4\text{ qt}}{1} \times \frac{2\text{ pt}}{1\text{ qt}} = 8\text{ pt}$
32 ounces = as cups	$\frac{32\text{ oz}}{1} \times \frac{1\text{ c}}{8\text{ oz}} = 4\text{ c}$

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Converting Length Units

km

m

cm

mm

x1000

x100

x10

÷1000

÷100

÷10

5km = ? m 5 x 1000 = 5000m 1500 m = ? km 1500 ÷ 1000 = 1.5 km

3m = ? cm 3 x 100 = 300 cm 450 cm = ? m 450 ÷ 100 = 4.5 m

9cm = ? mm 9 x 10 = 90 mm 20 mm = ? cm 20 ÷ 10 = 2 cm

Convert metric units of measurement worksheet. Convert metric units of length worksheet. Convert metric units of area worksheet. Convert metric units of measurement grade 6 measurements worksheet. Convert between metric units worksheet. Convert metric units worksheet pdf. Compare and convert metric units of length worksheets. Convert between metric and imperial units worksheet.

Some difficulty levels for certain type of conversions will not accept decimal digits at all. Millimeters, Centimeters, Meters, and Kilometers | Type 3 Prove your mettle in this set of type-3 metric unit conversion review problems that play out a little more extensively and intricately than the rest. 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. (15 Worksheets) Millimeters, Centimeters, Meters, and Kilometers| Integers Ace it like a pro and convert between bigger units and smaller units with this set of 3rd grade and 4th grade worksheets. You can generate the worksheets either in html or PDF format — both are easy to print. You can also make worksheets for the metric system: units with the prefixes milli, centi, deci, deka, hecto, and kilo. In Book 1, students learn how a linear measurement system is developed and then do activities related to measuring length. Get started with our free worksheets. => Learn more (24 Worksheets) Unit Conversion | Meters and Kilometers How many kilometers are in 20 meters? Meter, the basic unit of length, was based on the dimensions of the earth. The basic units of the metric system are taken from nature. Conversions between individual units - check any number of these: Conversions in the metric system - check any 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 14pt 16pt 18pt 24pt Cell Padding: Border: 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. Delve into the concept with our resources crafted for 3rd grade, 4th grade, and 5th grade. Featuring integers with metric units of length like km, m, cm, and mm, each pdf worksheet is supplied with problems in three different formats along with a word problem. The answer key is automatically generated and is placed on the second page of the file. 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. Book 4 covers a variety of topics. Just try again! To get a different worksheet using the same options: PDF format: come back to this page and push the button again. Developed in the late 17th century, the metric system was first used during the French Revolution. With the generator (below), 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. Students experiment with weighing objects and measuring capacity, and they also learn about temperature and time. Converting Metric Units of Length | Revision Opt for this batch of worksheets if recapitulating skills of kids in converting between the four important metric units of length is on your mind. Presenting exercises involving integers and decimals, these practice materials prepare students to convert between metric units of length. We also offer MANY pre-made PDF worksheets (on separate pages): Basic instructions for the worksheets Each worksheet is randomly generated and thus unique. Measuring Units Worksheet Generator 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. Group projects are included in addition to numerous individual activities. Millimeters, Centimeters, Meters, and Kilometers | Type 1 Watch fun make way for fascination, as kids master converting between common metric units of length: cm and mm, m and cm, and km and m. In Book 3, the concept of area is further developed, and students are introduced to volume. To get the PDF worksheet, simply push the button titled "Create PDF" or "Make PDF worksheet". Unmistakably stick to the formula: 1 kilometer = 1000 meters, and you will most likely breeze through it. Watch students' imagination at work as they answer such questions converting between kilometers and meters, in this bundle of worksheets. With nine different tables in the spotlight, each pdf requires students to display their converting skills in a completely different level. 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. A great place to extend unit conversion skills, these worksheets double as a tool to review and revisit practice. To get the worksheet in html format, push the button "View in browser" or "Make html worksheet". For easy practice and progress from one level to another, the exercises here are neatly presented in 3 parts involving integers and decimals. Html format: simply refresh the worksheet page in your browser window. Millimeters, Centimeters, Meters, and Kilometers | Type 2 Let the 5th grade and 6th grade students put their industry and hard work into play as they convert between km, m, cm, and mm in these printable type-2 exercises. The options are numerous: you can choose the number of problems, font size, space below the problems, the decimal separator (comma or point), the thousands separator, the number of decimal digits, difficulty level, and more. Sometimes the generated worksheet is not exactly what you want. Awash with exercises on converting metric units of length involving integers and decimals, these worksheets ease the learning stress of many a student. Book 2 focuses on length, perimeter, and area measures. 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