

# Metric Mayhem

Some comparisons for visualizing the units

- A. 1 centimeter (cm) is a little less than  $\frac{1}{2}$  an inch or the width of a sugar cube.
- B. 1 millimeter (mm) is about the thickness of a dime.
- C. 1 liter is a little less than a quart like a large plastic bottle of soda.
- D. A nickel has a mass (weighs) about five grams.

Fill in the name of the **metric unit** for the following types of measurement.

Length \_\_\_\_\_ Volume \_\_\_\_\_ Mass \_\_\_\_\_

Fill in the name of the **abbreviations** for each metric unit.

Length \_\_\_\_\_ Volume \_\_\_\_\_ Mass \_\_\_\_\_

Fill in the **abbreviation** for each metric unit.

milligram _____	centigram _____	kilogram _____
millimeter _____	centimeter _____	kilometer _____
milliliter _____	centiliter _____	kiloliter _____

What is the **meaning** of the following prefixes?

centi = <u>.01</u>	hecto = _____	milli = _____
deca = _____	kilo = _____	deci = _____

Fill in the **meanings** for the following measurements.

milligram _____	centigram _____	kilogram _____
millimeter _____	centimeter _____	kilometer _____
milliliter _____	centiliter _____	kiloliter _____

Write what the following **abbreviations** stand for.

cm = _____	L = _____
km = _____	mL = _____
mm = _____	g = _____
kg = _____	mg = _____
m = _____	cg = _____

Convert the following:

23.1 cm = \_\_\_\_\_ mm    91 mm = \_\_\_\_\_ cm    4.125 m = \_\_\_\_\_ mm

156 m = \_\_\_\_\_ km    100 m = \_\_\_\_\_ cm    .09 m = \_\_\_\_\_ mm

312 mm = \_\_\_\_\_ m    765 cm = \_\_\_\_\_ km    81 mm = \_\_\_\_\_ cm

.025 g = \_\_\_\_\_ kg    1900 mL = \_\_\_\_\_ L    214 mL = \_\_\_\_\_ l

15 kg = \_\_\_\_\_ mg    39 dL = \_\_\_\_\_ L    46.2 L = \_\_\_\_\_ ml

7 kg = \_\_\_\_\_ mg    7 g = \_\_\_\_\_ mg    5000 g = \_\_\_\_\_ kg

6540 g = \_\_\_\_\_ kg    10,000 g = \_\_\_\_\_ kg    1000 g = \_\_\_\_\_ cg

More Conversion:

10 kilograms = \_\_\_\_\_ grams    27 cm = \_\_\_\_\_ meters

12 meters = \_\_\_\_\_ centimeters    95 mL = \_\_\_\_\_ liters

3 liters = \_\_\_\_\_ milliliters    13 km = \_\_\_\_\_ meters

How many grams are in a kilogram? \_\_\_\_\_

How many milligrams are in a gram? \_\_\_\_\_

How many milligrams are in a kilogram? \_\_\_\_\_

Circle the largest of the following:

milligram or kilogram

gram or milligram

kilogram or gram