

# METRICS AND MEASUREMENT

Name \_\_\_\_\_

In the chemistry classroom and lab, the metric system of measurement is used, so it is important to be able to convert from one unit to another.

mega	kilo	hecto	deca	Basic Unit	deci	centi	milli	micro
(M)	(k)	(h)	(da)	gram (g)	(d)	(c)	(m)	(u)
1,000,000	1,000	100	10	liter (L)	.1	.01	.001	.000001
$10^6$	$10^3$	$10^2$	$10^1$	meter (m)	$10^{-1}$	$10^{-2}$	$10^{-3}$	$10^{-6}$

## Factor Label Method

- Write the given number and unit.
- Set up a conversion factor (fraction used to convert one unit to another).
  - Place the given unit as denominator of conversion factor.
  - Place desired unit as numerator.
  - Place a "1" in front of the larger unit.
  - Determine the number of smaller units needed to make "1" of the larger unit.
- Cancel units. Solve the problem.

Example 1: 55 mm = \_\_\_\_\_ m

$$\frac{55 \text{ mm}}{1} \times \frac{1 \text{ m}}{1000 \text{ mm}} = 0.055 \text{ m}$$

Example 2: 88 km = \_\_\_\_\_ m

$$\frac{88 \text{ km}}{1} \times \frac{1000 \text{ m}}{1 \text{ km}} = 88,000 \text{ m}$$

Example 3: 7000 cm = \_\_\_\_\_ hm

$$\frac{7000 \text{ cm}}{1} \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{1 \text{ hm}}{100 \text{ m}} = 0.7 \text{ hm}$$

Example 4: 8 dL = \_\_\_\_\_ dL

$$\frac{8 \text{ dL}}{1} \times \frac{10 \text{ L}}{1 \text{ dL}} \times \frac{10 \text{ dL}}{1 \text{ L}} = 800 \text{ dL}$$

The factor label method can be used to solve virtually any problem including changes in units. It is especially useful in making complex conversions dealing with concentrations and derived units.

Convert the following.

1. 35 mL = \_\_\_\_\_ dL

2. 950 g = \_\_\_\_\_ kg

3. 275 mm = \_\_\_\_\_ cm

4. 1,000 L = \_\_\_\_\_ kL

5. 1,000 mL = \_\_\_\_\_ L

6. 4,500 mg = \_\_\_\_\_ g

7. 25 cm = \_\_\_\_\_ mm

8. 0.005 kg = \_\_\_\_\_ dag

9. 0.075 m = \_\_\_\_\_ cm

10. 15 g = \_\_\_\_\_ mg

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**DJ Losen**



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