

Convert Metric Units



You can convert metric units to compare.

Metric Units	
Length	1 centimeter (cm) = 10 millimeters (mm)
	10 centimeters (cm) = 1 decimeter (dm)
	10 decimeters (dm) = 1 meter (m)
	1,000 meters (m) = 1 kilometer (km)
Mass	1 kilogram (kg) = 1,000 grams (g)
	1 gram (g) = 1,000 milligrams (mg)
Capacity	1 liter (L) = 1,000 milliliters (mL)

Convert 9 dm to centimeters (cm).

To convert a larger unit to a smaller unit, multiply.

Think: 1 dm = 10 cm

$$9 \text{ dm} = ? \text{ cm}$$

$$9 \text{ dm} = 9 \times 10 \text{ cm}$$

$$9 \text{ dm} = 90 \text{ cm}$$

Convert 6,000 mg to grams (g).

To convert a smaller unit to a larger unit, divide.

Think: 1 g = 1,000 mg

$$6,000 \text{ mg} = ? \text{ g}$$

$$6,000 \div 1,000 \text{ mg} = 6 \text{ g}$$

$$6,000 \text{ mg} = 6 \text{ g}$$

Complete.

- | | |
|------------------------|----------------------|
| 1. 5 m = _____ cm | 2. 8 L = _____ mL |
| 3. 6 kg = _____ g | 4. 70 mm = _____ cm |
| 5. 8 dm = _____ cm | 6. 2 m = _____ dm |
| 7. 2,000 mL = _____ L | 8. 300 cm = _____ m |
| 9. 9 cm = _____ mm | 10. 70 dm = _____ m |
| 11. 5,000 g = _____ kg | 12. 40 cm = _____ dm |