

Metric Measures

To change metric measurements from one unit to another, you can multiply or divide.

LENGTH

1 cm = 10 mm
1 dm = 10 cm
1 m = 100 cm
1 km = 1,000 m

MASS

1 kg = 1,000 g

CAPACITY

1 L = 1,000 mL

MULTIPLY to change larger units to smaller units.

How many mm are there in 3 cm?

You know that 1 cm = 10 mm

You want to find 3×10 mm

$3 \times 10 = 30$ mm

DIVIDE to change smaller units to larger units.

How many kg are 6,000 g?

You know that 1,000 g = 1 kg.

You want to find $6,000 \text{ g} \div 1,000 \text{ g}$.

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

Fill in the blank with the correct number.

1. 5 cm = _____ mm
 2. 30 cm = _____ dm
 3. 4,000 mL = _____ L
 4. 8 kg = _____ g
 5. 9 dm = _____ cm
 6. 5 m = _____ cm
 7. 7,000 m = _____ km
 8. 9 L = _____ mL
 9. 6,000 g = _____ kg
- 10. Number Sense** Judy measured the length of her desk and found that it is 10 dm long. She said that her desk is 1 m long. Is she correct? Why or why not?
