

# Metric Units of Mass and Capacity

**Metric Units of Mass**

$$1,000 \text{ milligrams (mg)} = 1 \text{ gram (g)}$$

$$1,000 \text{ grams} = 1 \text{ kilogram (kg)}$$

$$1,000 \text{ kilograms} = 1 \text{ metric ton (t)}$$

**Metric Units of Capacity**

$$1,000 \text{ milliliters (mL)} = 1 \text{ liter (L)}$$

$$10 \text{ deciliters (dL)} = 1 \text{ liter (L)}$$

Complete.  $5 \text{ kg} = \square \text{ g}$

**Step 1:** Use the table to find the relationship between kilograms and grams.

$$1 \text{ kg} = 1,000 \text{ g}$$

**Step 2:** Decide if you should multiply or divide.

Kilograms are larger than grams.

To change from a larger unit to a smaller unit, multiply.

**Step 3:** Multiply by 1,000 to find the number of grams.

$$5 \times 1,000 = 5,000$$

$$5 \text{ kg} = 5,000 \text{ g}$$

Complete.

1.  $7 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

2.  $9 \text{ t} = \underline{\hspace{2cm}} \text{ kg}$

3.  $3,000 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

4.  $5 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$

5.  $2 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

6.  $2 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

7.  $13,000 \text{ kg} = \underline{\hspace{2cm}} \text{ t}$

8.  $11,000 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$

9.  $8 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

10.  $8 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

11.  $5,000 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

12.  $3 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$

13.  $12 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

14.  $6,000 \text{ kg} = \underline{\hspace{2cm}} \text{ t}$

15.  $4,000 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$