Relating Customary and Metric Measures

16-4

You can convert between customary and metric measures using the table below.

Customary and Metric Unit Equivalents

Length	Weight/Mass	Capacity
1 in. = 2.54 cm	1 oz ≈ 28.35 g	1 L = 1.06 qt
1 m ≈ 39.37 in.	1 kg ≈ 2.2 lb	1 gal = 3.79 L
1 mi ≈ 1.61 km	1 metric ton (t) = 1.102 T	

You multiply to convert a larger unit to a smaller unit. For example, multiply when converting from inches to centimeters.

You divide to convert a smaller unit to a larger unit. For example, divide when converting from kilograms to pounds.

$$174 lb = kg$$

An inch is larger than a centimeter. To convert from inches to centimeters, multiply.

$$1 \text{ in.} = 2.54 \text{ cm}$$

$$4 \times 2.54 = 10.16$$

A pound is a smaller unit than a kilogram. To convert from pounds to kilograms. divide.

1 kg
$$\approx$$
 2.2 lb

$$174 \div 2.2 \approx 79.09$$

174 lb
$$\approx$$
 79.09 kg

Complete. Round to the nearest tenth.

7.
$$55 \text{ oz} \approx g$$

4. 70 mi
$$\approx$$
 km

6. 20 kg
$$\approx$$
 lb

8.
$$18 L \approx$$
____ qt

9. Reasoning Which is a faster speed limit, 65 mi per hour or 100 km per hour?