

Converting Units

7th Grade Math

Name: Key

Customary Units

1 ft = 12 in
1 yd = 3 ft
1 mi = 5,280 ft

1 cup = 8 fl oz
1 pt = 2 cup
1 qt = 2 pt
1 gal = 4 qt

1 lb = 16 oz
1 ton = 2,000 lb

Metric Units

1 m = 100 cm
1 km = 1,000 m

1 liter = 1,000 mL

1 kg = 1,000 grams

Customary/Metric

1 in = 2.54 cm
1 mi = 1.6093 km

1 gal = 3.79 liters

1 lb = 0.45 kg

Directions: Use the information above to convert each of the following measurements. Don't forget to use correct units when you write your answer.

1. 48 in = how many ft?

$$\frac{48 \text{ in}}{1} \cdot \frac{1 \text{ ft}}{12 \text{ in}} = 4 \text{ ft}$$

2. 12.3 km = how many m?

$$\frac{12.3 \text{ km}}{1} \cdot \frac{1,000 \text{ m}}{1 \text{ km}} = 12,300 \text{ m}$$

3. 30 cm = how many in?

$$\frac{30 \text{ cm}}{1} \cdot \frac{1 \text{ in}}{2.54 \text{ cm}} \approx 11.81 \text{ in}$$

4. 47 oz = how many cups?

$$\frac{47 \text{ oz}}{1} \cdot \frac{1 \text{ c}}{8 \text{ oz}} = 5.875 \text{ c}$$

5. 25 in = how many cm?

$$\frac{25 \text{ in}}{1} \cdot \frac{2.54 \text{ cm}}{1 \text{ in}} = 63.5 \text{ cm}$$

6. 5.3 mi = how many ft?

$$\frac{5.3 \text{ mi}}{1} \cdot \frac{5,280 \text{ ft}}{1 \text{ mi}} = 27,984 \text{ ft}$$

7. 5,261 mL = how many L?

$$\frac{5,261 \text{ mL}}{1} \cdot \frac{1 \text{ L}}{1,000 \text{ mL}} = 5.261 \text{ L}$$

8. 7,834 ft = how many mi?

$$\frac{7,834 \text{ ft}}{1} \cdot \frac{1 \text{ mi}}{5,280 \text{ ft}} \approx 1.48 \text{ mi}$$

9. 80 km = how many mi?

$$\frac{80 \text{ km}}{1} \cdot \frac{1 \text{ mi}}{1.6093 \text{ km}} \approx 49.7 \text{ mi}$$

10. 90 lb = how many kg?

$$\frac{90 \text{ lb}}{1} \cdot \frac{.45 \text{ kg}}{1 \text{ lb}} = 40.5 \text{ kg}$$

11. 46 oz = how many lb?

$$\frac{46 \text{ oz}}{1} \cdot \frac{1 \text{ lb}}{16 \text{ oz}} = 2.875 \text{ lbs}$$

12. 10 L = how many gal?

$$\frac{10 \text{ L}}{1} \cdot \frac{1 \text{ gal}}{3.79 \text{ L}} \approx 2.64 \text{ gal}$$