

Lesson 7.3: Converting Customary Units

Length

$$1 \text{ ft} = 12 \text{ in.}$$

$$1 \text{ yd} = 36 \text{ in.}$$

$$1 \text{ yd} = 3 \text{ ft}$$

$$1 \text{ mi} = 5,280 \text{ ft}$$

$$1 \text{ mi} = 1,760 \text{ yd}$$

Weight/Mass

$$1 \text{ lb} = 16 \text{ oz}$$

$$1 \text{ T} = 2,000 \text{ lb}$$

Capacity

$$1 \text{ c} = 8 \text{ fl oz}$$

$$1 \text{ pt} = 2 \text{ c}$$

$$1 \text{ qt} = 2 \text{ pt}$$

$$1 \text{ qt} = 4 \text{ c}$$

$$1 \text{ gal} = 4 \text{ qt}$$

Converting Customary

Proportion:

1. Set up the first ratio using equivalent measurements from above
2. Put the number from the question in the correct place in the second ratio
3. Solve using cross-multiplying

Watch converting Customary Video

Example:

1. What is the weight of a 3-pound human brain in ounces?

$$3 \text{ lbs} = \underline{\hspace{1cm}} \text{ oz}$$

$$\frac{3 \text{ lbs}}{X \text{ oz}} = \frac{1 \text{ lb}}{16 \text{ oz}}$$

$$1 \cdot X = 3 \cdot 16$$
$$X = 48$$

$$X = 48 \text{ oz}$$