

Reteaching 6-7

Changing Units in the Customary System

Complete the statement: $5\frac{5}{8}$ c = ? fl oz

- ① Find the relationship between cups and fluid ounces: 1 c = 8 fl oz
- ② Since there are 8 fluid ounces in each cup, multiply the number of cups by 8.

$$\begin{aligned} 5\frac{5}{8} \times 8 &= \frac{45}{8} \times 8 \\ &= \frac{45}{\underset{1}{8}} \times \frac{8^1}{1} \\ &= 45 \\ 5\frac{5}{8} \text{ c} &= 45 \text{ fl oz} \end{aligned}$$

Subtract: 9 ft 8 in. - 2 ft 11 in.

- ① Find the relationship between feet and inches: 1 ft = 12 in.
- ② Use the relationship to rename 9 feet 8 inches as 8 feet 20 inches.
- ③ Subtract.

$$\begin{array}{r} 9 \text{ ft } 8 \text{ in.} \rightarrow 8 \text{ ft } 20 \text{ in.} \\ - 2 \text{ ft } 11 \text{ in.} \\ \hline 6 \text{ ft } 9 \text{ in.} \end{array}$$

$$9 \text{ ft } 8 \text{ in.} - 2 \text{ ft } 11 \text{ in.} = 6 \text{ ft } 9 \text{ in.}$$

To compare amounts, first change them to the same unit.

$$\begin{aligned} \text{Compare: } 25 \text{ fl oz } \quad ? \quad 3 \text{ c} &\rightarrow 25 \text{ fl oz } \quad ? \quad 24 \text{ fl oz} \\ &\quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad > \quad 24 \text{ fl oz} \\ &\quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad > \quad 3 \text{ c} \end{aligned}$$

Complete each statement.

- 1. 12 ft = ? yd _____
- 2. 32 qt = ? gal _____
- 3. $1\frac{1}{2}$ mi = ? ft _____
- 4. 15 pt = ? qt _____
- 5. 440 yd = ? mi _____
- 6. $2\frac{1}{2}$ T = ? lb _____

Add or subtract.

$$\begin{array}{r} 3 \text{ pt } 1 \text{ c} \\ + 4 \text{ pt } 1 \text{ c} \\ \hline \end{array}$$

$$\begin{array}{r} 4 \text{ yd } 1 \text{ ft} \\ - 1 \text{ yd } 2 \text{ ft} \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ lb } 20 \text{ oz} \\ + 8 \text{ lb } 12 \text{ oz} \\ \hline \end{array}$$

Use <, =, or > to complete each statement.

- 10. 43 in. 4 ft
- 11. $8\frac{1}{2}$ gal 136 c
- 12. 108 in. $3\frac{1}{2}$ yd
- 13. $2\frac{1}{2}$ lb 40 oz
- 14. 7,000 lb $3\frac{1}{4}$ t
- 15. $5\frac{1}{2}$ pt 3 qt
- 16. A semi-truck can hold 8,500 pounds of cargo. How many tons can it hold?

Practice 6-7

Changing Units in the Customary System

Complete each statement.

1. $7\frac{1}{2}$ ft = _____ yd

2. 45 in. = _____ ft

3. 28 fl oz = _____ c

4. $2\frac{3}{4}$ T = _____ lb

Add or subtract.

7. $\begin{array}{r} 8 \text{ ft } 3 \text{ in.} \\ - 3 \text{ ft } 5 \text{ in.} \\ \hline \end{array}$

8. $\begin{array}{r} 12 \text{ qt } 1 \text{ pt} \\ + 11 \text{ qt } 1 \text{ pt} \\ \hline \end{array}$

9. $\begin{array}{r} 9 \text{ yd } 15 \text{ in.} \\ + 7 \text{ yd } 28 \text{ in.} \\ \hline \end{array}$

Solve.

13. The odometer of an automobile shows tenths of a mile.
How many feet are in $\frac{1}{10}$ mi?

14. How many inches are in one mile?

15. Jarel bought 3 containers of cottage cheese, each weighing 24 oz.
How many pounds did she buy?
