

**LESSON**  
**9-3** **Practice B**  
**Converting Customary Units**

**Convert.**

1. 3 yards = \_\_\_\_\_ inches
2. \_\_\_\_\_ yards = 87 feet
3. \_\_\_\_\_ cups = 104 fluid ounces
4. 4 quarts = \_\_\_\_\_ pints
5. 4 pounds = \_\_\_\_\_ ounces
6. 80 ounces = \_\_\_\_\_ pounds
7. 5 miles = \_\_\_\_\_ yards
8. \_\_\_\_\_ gallons = 48 cups
9. \_\_\_\_\_ cups = 4 pints
10. 36 inches = \_\_\_\_\_ yards

**Compare. Write  $<$ ,  $>$ , or  $=$ .**

11. 4 quarts  24 cups
12. 2.5 feet  32 inches
13. 8 ounces   $\frac{1}{4}$  pound
14. 5 cups  40 fluid ounces
15. 56 ounces  3.5 pounds
16. 2 yards  5 feet
17. 1.5 miles  2,500 yards
18.  $3\frac{1}{2}$  tons  6,000 pounds

19. Cassandra drank  $8\frac{1}{2}$  cups of water during the mountain hike.  
How many fluid ounces of water did she drink?
- \_\_\_\_\_

20. Stan cut a wooden plank into 4 pieces. Each piece was  
18 inches long. How long was the plank before Stan cut it?
- \_\_\_\_\_

LESSON

Practice A

9-3

Converting Customary Units

Convert.

1. 1 yard = 3 feet

2. 1 mile = 1,760 yards

3. 1 pound = 16 ounces

4. 1 ton = 2,000 pounds

5. 1 pint = 2 cups

6. 1 quart = 2 pints

7. 1 quart = 4 cups

8. 1 gallon = 4 quarts

9. 24 inches = 2 feet

10. 8 pints = 4 quarts

11. 8 quarts = 2 gallons

12. 3 pounds = 48 ounces

13. 72 inches = 2 yards

14. 10,000 pounds = 5 tons

Compare. Write <, >, or =.

15. 28 inches  $\leq$  1 yard

16. 120 inches  $=$  10 feet

17. 2 pints  $=$  4 cups

18. 22 inches  $<$  2 feet

19. George's two rabbits each weigh 24 ounces. How many pounds do they weigh together?  
3 pounds

20. Loretta needs to add 2 gallons of water to her fish tank, but she only has a cup to measure the water. How many cups does she need to add?  
32 cups

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LESSON

Practice B

9-3

Converting Customary Units

Convert.

1. 3 yards = 108 inches

2. 29 yards = 87 feet

3. 13 cups = 104 fluid ounces

4. 4 quarts = 8 pints

5. 4 pounds = 64 ounces

6. 80 ounces = 5 pounds

7. 5 miles = 8,800 yards

8. 3 gallons = 48 cups

9. 8 cups = 4 pints

10. 36 inches = 1 yards

Compare. Write <, >, or =.

11. 4 quarts  $<$  24 cups

12. 2.5 feet  $<$  32 inches

13. 8 ounces  $>$   $\frac{1}{4}$  pound

14. 5 cups  $=$  40 fluid ounces

15. 56 ounces  $=$  3.5 pounds

16. 2 yards  $>$  5 feet

17. 1.5 miles  $>$  2,500 yards

18.  $3\frac{1}{2}$  tons  $>$  6,000 pounds

19. Cassandra drank  $8\frac{1}{2}$  cups of water during the mountain hike. How many fluid ounces of water did she drink?  
68 fluid ounces

20. Stan cut a wooden plank into 4 pieces. Each piece was 18 inches long. How long was the plank before Stan cut it?  
72 inches or 6 feet long

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LESSON

Practice C

9-3

Converting Customary Units

Convert.

1. 9 feet = 3 yards

2.  $6\frac{1}{2}$  cups = 52 fluid ounces

3.  $1\frac{3}{4}$  miles = 3,080 yards

4. 2 gallons = 32 cups

5. 4,400 pounds =  $2\frac{1}{5}$  tons

6.  $1\frac{1}{2}$  yards = 54 inches

7. 40 ounces =  $2\frac{1}{2}$  pounds

8.  $1\frac{2}{3}$  miles = 8,800 feet

9. 21 cups =  $5\frac{1}{4}$  quarts

10. 1,000 pounds =  $\frac{1}{2}$  ton

Compare. Write <, >, or =.

11.  $4\frac{9}{10}$  pounds  $<$  80 ounces

12. 365 inches  $>$  10 yards

13. 3 miles  $=$  5,280 yards

14. 10 quarts  $=$  20 pints

15.  $6\frac{2}{3}$  feet  $=$  80 inches

16. 4 gallons  $>$  30 pints

17. 11 gallons  $>$  40 quarts

18.  $13\frac{2}{3}$  yards  $>$  40 feet

19. A Labrador retriever weighs 48 pounds. A huskie weighs 775 ounces. Which dog weighs more? by how many ounces?  
The huskie weighs 7 ounces more than the Labrador retriever.

20. Maria drove 176,000 yards in 2 hours. How many miles per hour did she drive on average?  
50 miles per hour

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LESSON

Reteach

9-3

Converting Customary Units

You can use the table below to convert customary units.

Length	Weight	Capacity
1 foot = 12 inches	1 pound = 16 ounces	1 cup = 8 fluid ounces
1 yard = 36 inches	1 ton = 2,000 pounds	1 pint = 2 cups
1 yard = 3 feet		1 quart = 2 pints
1 mile = 5,280 feet		1 quart = 4 cups
1 mile = 1,760 yards		1 gallon = 4 quarts
		1 gallon = 128 fluid ounces

To figure out how many pounds are in 32 ounces, set up a proportion where the first ratio uses 16 ounces is 1 pound, and the second ratio uses a variable for the value you are trying to find.

$$\frac{16 \text{ ounces}}{1 \text{ pound}} = \frac{32 \text{ ounces}}{x \text{ pounds}}$$

Then solve the proportion.

$$\frac{16 \text{ ounces}}{1 \text{ pound}} = \frac{32 \text{ ounces}}{x \text{ pounds}}$$

$$16x = 32$$

Think:  $32 \div 16 = x$

$$x = 2$$

So, there are 2 pounds in 32 ounces.

Use the table above to set up a proportion. Then find each of the values.

1. the number of pounds in 80 ounces  
 $\frac{x}{80}$   
5 pounds

2. the number of quarts in 6 gallons  
 $\frac{x}{6}$   
24 quarts

3. the number of yards in 5 miles  
 $\frac{x}{80}$   
8,800 yards

4. the number of cups in 20 pints  
 $\frac{x}{6}$   
40 cups

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