

LESSON
9-3 Practice C
Converting Customary Units**Convert.**

1. _____ feet = 3 yards
2. _____ cups = 52 fluid ounces
3. $1\frac{3}{4}$ miles = _____ yards
4. 2 gallons = _____ cups
5. _____ pounds = $2\frac{1}{5}$ tons
6. $1\frac{1}{2}$ yards = _____ inches
7. 40 ounces = _____ pounds
8. $1\frac{2}{3}$ miles = _____ feet
9. _____ cups = $5\frac{1}{4}$ quarts
10. 1,000 pounds = _____ 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?

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

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 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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Holt Mathematics

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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Holt Mathematics

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 = $\frac{1}{22}$ pounds

8. $\frac{2}{3}$ 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 yard = 36 inches 1 yard = 3 feet 1 mile = 5,280 feet 1 mile = 1,760 yards	1 pound = 16 ounces 1 ton = 2,000 pounds	1 cup = 8 fluid ounces 1 pint = 2 cups 1 quart = 2 pints 1 quart = 4 cups 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
 $\frac{x}{16} = \frac{80}{1}$
5 pounds

2. the number of quarts in 6 gallons
 $\frac{4}{1} = \frac{x}{6}$
24 quarts

3. the number of yards in 5 miles
 $\frac{8,800}{1} = \frac{x}{5}$
8,800 yards

4. the number of cups in 20 pints
 $\frac{40}{1} = \frac{x}{20}$
40 cups

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