

# Math

## STANDARDS REVIEW



# CUSTOMARY UNITS OF LENGTH

Name 

Date 

**A** Which unit makes sense for each measurement? Write *in*, *ft*, *yd*, or *mi*.

1. length of a car is 16 \_\_\_\_\_
2. width of a football field is 53 \_\_\_\_\_
3. length of a pencil is 5 \_\_\_\_\_
4. length of a river is 25 \_\_\_\_\_

**B** Use the relationships among customary units of length to complete each problem.

5. How many feet are in 8 yards? \_\_\_\_\_
6. How many yards are in  $1\frac{1}{2}$  miles? \_\_\_\_\_
7. How many inches are in  $5\frac{1}{4}$  feet? \_\_\_\_\_
8. How many inches are in  $2\frac{1}{3}$  yards? \_\_\_\_\_
9. How many feet are in 5 miles? \_\_\_\_\_

**Remember**

1 ft = 12 in

1 yd = 3 ft

1 yd = 36 in

1 mi = 5,280 ft

1 mi = 1,760 yd

10.  $6\frac{1}{2}$  yd = \_\_\_\_\_ ft
11. 9 in = \_\_\_\_\_ ft
12. 10 ft = \_\_\_\_\_ yd
13. 45 in = \_\_\_\_\_ yd
14. 2,640 ft = \_\_\_\_\_ mi
15.  $\frac{2}{3}$  mi = \_\_\_\_\_ yd

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

16. 6 ft  3 yd
17. 72 in  2 yd
18. 10,000 ft  2 mi
19. 25 in  2.5 ft
20. 5 ft  50 in
21. 4 ft   $1\frac{1}{3}$  yd
22. 90 in   $7\frac{1}{2}$  ft
23.  $\frac{1}{2}$  mi  1,000 yd
24. 1,500 ft   $\frac{1}{4}$  mi
25. 6 ft 3 in  63 in
26. 3,000 yd  2 mi
27.  $6\frac{1}{2}$  ft  80 in

**D** Write the measurements in order from least to greatest.

28. 5 ft, 50 in,  $1\frac{1}{2}$  yd      \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
29.  $\frac{1}{2}$  mi, 2,000 ft, 800 yd      \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
30.  $\frac{1}{10}$  mi, 500 ft, 5,000 in, 170 yd      \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

# COMPARE CUSTOMARY MEASUREMENTS

Name

Date

**A** Use the relationships among customary units to complete each problem.

1. How many ounces in 5 pounds? \_\_\_\_\_
2. How many quarts in 4 gallons? \_\_\_\_\_
3. How many inches in 8 feet? \_\_\_\_\_
4. How many pounds in 6 tons? \_\_\_\_\_
5. How many feet in 3 miles? \_\_\_\_\_
6. How many pints in 8 quarts? \_\_\_\_\_
7. How many ft in 25 yards? \_\_\_\_\_

**Remember**

- 1 ft = 12 in
- 1 yd = 3 ft
- 1 mi = 5,280 ft
- 1 pt = 2 c
- 1 qt = 2 pt
- 1 gal = 4 qt
- 1 lb = 16 oz
- 1 T = 2,000 lb

- |                                  |                                   |                                 |
|----------------------------------|-----------------------------------|---------------------------------|
| 8. $4 \frac{1}{2}$ qt = _____ pt | 11. 21 ft = _____ yd              | 14. $\frac{3}{4}$ T = _____ lb  |
| 9. 42 in = _____ ft              | 12. 7,000 lb = _____ T            | 15. 6 qt = _____ gal            |
| 10. 3 c = _____ pt               | 13. $1 \frac{1}{2}$ lb = _____ oz | 16. $\frac{1}{4}$ mi = _____ ft |

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

- |                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| 17. 2 lb ○ 24 oz             | 21. 2,500 lb ○ 2.5 T  | 25. 600 lb ○ $\frac{1}{4}$ T    |
| 18. 3 yd ○ 12 ft             | 22. 50 ft ○ 150 yd    | 26. 100 lb ○ 0.05 T             |
| 19. $\frac{1}{2}$ gal ○ 2 qt | 23. 12 pt ○ 3 gal     | 27. 3 c ○ $1 \frac{1}{2}$ qt    |
| 20. 3.5 ft ○ 35 in           | 24. 7 ft 2 in ○ 72 in | 28. 2,500 ft ○ $\frac{1}{2}$ mi |

**C** Write the measurements in order from least to greatest.

29. 0.5 mi, 150 yd, 1,500 ft      \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
30. 0.5 T, 150 lb, 1,500 oz      \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
31. 5 gal, 15 qt, 50 pt      \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

# OPERATIONS WITH CUSTOMARY MEASUREMENTS

Name

Date

**A** Rewrite in vertical form and add.  
Simplify the answer.

**Remember** When you add or subtract units of measure, line up the like units.

1. 3 yd 2 ft + 6 yd 2 ft      3. 2 yd 7 in. + 4 ft 8 in.      5. 3 qt 1 pt + 2 qt 3 pt

$$\begin{array}{r} 3 \text{ yd } 2 \text{ ft} \\ + 6 \text{ yd } 2 \text{ ft} \\ \hline 9 \text{ yd } 4 \text{ ft} = 10 \text{ yd } \_\_\text{ft} \end{array}$$

2. 4 ft 6 in. + 3 ft 10 in.      4. 2 gal 1 qt + 3 qt      6. 8 lb 12 oz + 3 lb 8 oz

**B** Rewrite in vertical form and subtract.  
Simplify the answer.

**Remember** You may have to rename some units before you subtract.

7. 5 lb 3 oz – 2 lb 10 oz      9. 8 yd 1 ft – 3 yd 2 ft      11. 5 yd 6 in. – 2 yd 1 ft 4 in.

$$\begin{array}{r} 4 \quad 19 \\ 5 \text{ lb } 3 \text{ oz} \\ - 2 \text{ lb } 10 \text{ oz} \\ \hline 2 \text{ lb } \_\_\text{oz} \end{array}$$

8. 2 gal 1 qt – 3 qt      10. 8 T – 3 T 400 lb      12. 7 gal – 3 qt 1 pt

**C** Rewrite in vertical form and multiply.  
Simplify the answer.

**Remember** Multiply each part of the measurement by the number.

13. 3 × (3 yd 5 in.)      14. 3 × (4 lb 10 oz)      15. 5 × (2 gal 3 qt 1 pt)

$$\begin{array}{r} 3 \text{ yd } 5 \text{ in.} \\ \times \quad 3 \\ \hline 9 \text{ yd } 15 \text{ in.} = \_\_\text{yd } \_\_\text{in.} \end{array}$$

**D** Divide. Simplify to whole-number answers.

**Remember** Divide each part of the measurement by the number.

16. (15 lb 10 oz) ÷ 5      17. (5 yd 6 in.) ÷ 3      18. (3 gal 6 qt) ÷ 4

$$\begin{array}{r} 5 \text{ yd } 6 \text{ in.} = 3 \text{ yd } 6 \text{ ft } 6 \text{ in.} = \\ \underline{\quad 3 \quad} \quad \underline{\quad 3 \quad} \\ 1 \text{ yd } \_\_\text{ft } \_\_\text{in.} \end{array}$$

# METRIC UNITS OF LENGTH

Name 

Date 

**A** Which unit makes sense for each measurement? Write *mm*, *cm*, *m*, or *km*.

- length of a soccer field is 110 \_\_\_\_\_
- height of a table is 85 \_\_\_\_\_
- width of a pencil is 7 \_\_\_\_\_
- length of a river is 98 \_\_\_\_\_

**B** Use the relationships among metric units of length to complete each problem.

- How many mm in 28 cm? \_\_\_\_\_
- How many cm in 5.5 m? \_\_\_\_\_
- How many m in 3 km? \_\_\_\_\_
- How many mm in 2 m? \_\_\_\_\_
- How many cm in 37 m? \_\_\_\_\_

**Remember**

1 cm = 10 mm  
1 m = 100 cm  
1 m = 1,000 mm  
1 km = 1,000 m

- 4,000 m = \_\_\_\_\_ km
- 1.5 km = \_\_\_\_\_ m
- 3.2 cm = \_\_\_\_\_ mm
- 381 mm = \_\_\_\_\_ cm
- 0.6 m = \_\_\_\_\_ cm
- 55 cm = \_\_\_\_\_ m
- 0.7 m = \_\_\_\_\_ mm
- 250 cm = \_\_\_\_\_ m
- 0.08 km = \_\_\_\_\_ m

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

- 9 cm  900 mm
- 35 m  3.5 cm
- 0.03 m  3 cm
- 3 km  300 m
- 400 mm  0.4 m
- 81 m  0.81 km
- 304 cm  3.04 m
- 73 m  730 cm
- 0.9 m  90 cm

**D** Write the measurements in order from least to greatest.

- 9 mm, 9 m, 9 cm \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- 800 m, 80 cm, 0.08 km \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- 400 m, 4,000 cm, 0.004 km \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

# COMPARE METRIC MEASUREMENTS

Name 

Date 

**A** Use the relationships among metric units to complete each problem.

1. How many mL in 8 L? \_\_\_\_\_

2. How many cm in 8 m? \_\_\_\_\_

3. How many mg in 0.8 g? \_\_\_\_\_

4. How many mm in 8 cm? \_\_\_\_\_

5. How many kg in 8 t? \_\_\_\_\_

6. How many cm in 800 mm? \_\_\_\_\_

7. How many g in 0.08 kg? \_\_\_\_\_

8. 6,000 m = \_\_\_\_\_ km

11. 3 L = \_\_\_\_\_ mL

14. 93 cm = \_\_\_\_\_ mm

9. 3 kg = \_\_\_\_\_ g

12. 0.6 cm = \_\_\_\_\_ mm

15. 0.07 L = \_\_\_\_\_ mL

10. 1.9 km = 1,900 \_\_\_\_\_

13. 0.8 g = 800 \_\_\_\_\_

16. 0.01 L = 10 \_\_\_\_\_

## Remember

1 cm = 10 mm

1 m = 100 cm

1 km = 1,000 m

1 L = 1,000 mL

1 g = 1,000 mg

1 kg = 1,000 g

1 t = 1,000 kg

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

17. 3 g ○ 0.003 kg

21. 1.5 t ○ 1,500 g

25. 400 m ○ 0.04 km

18. 3 m ○ 300 cm

22. 7.8 cm ○ 78 mm

26. 500 g ○ 0.5 kg

19. 300 mL ○ 3 L

23. 0.4 m ○ 40 cm

27. 4.5 L ○ 450 mL

20. 8 mL ○ 8 L

24. 0.2 kg ○ 20 g

28. 800 mm ○ 8 cm

**C** Write the measurements in order from least to greatest.

29.  $\frac{1}{2}$  L, 0.005 L, 50 mL \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

30. 5 km, 50 m, 500 cm, 5,500 mm \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

31. 0.2 t, 20 kg, 2,000 g, 20,000 mg \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

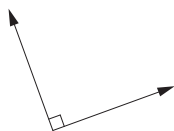
# ANGLES AND ANGLE MEASURE

Name 

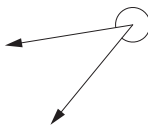
Date 

**A** Write the name for each angle. You can use one word more than once.

1. \_\_\_\_\_



4. \_\_\_\_\_



**Types of Angles**

acute

obtuse

right

straight

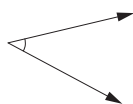
2. \_\_\_\_\_



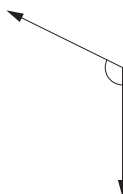
5. \_\_\_\_\_



3. \_\_\_\_\_

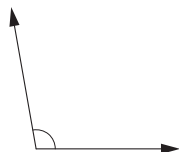


6. \_\_\_\_\_



**B** Use a protractor to measure each angle. Write the number of degrees.

7. \_\_\_\_\_



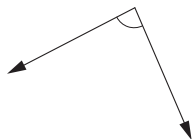
10. \_\_\_\_\_



13. \_\_\_\_\_



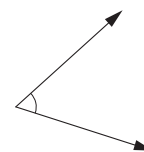
8. \_\_\_\_\_



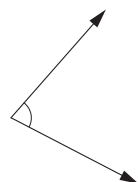
11. \_\_\_\_\_



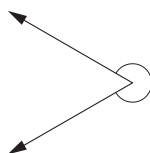
14. \_\_\_\_\_



9. \_\_\_\_\_



12. \_\_\_\_\_



15. \_\_\_\_\_



# ANGLE PAIRS

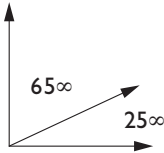
Name

Date

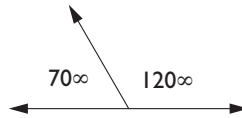
**A** Write complementary or supplementary to indicate the type of angle pairs.

**Remember** Complementary angles:  $90^\circ$  sum  
Supplementary angles:  $180^\circ$  sum

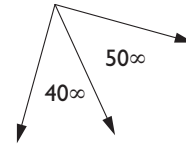
1. \_\_\_\_\_



2. \_\_\_\_\_

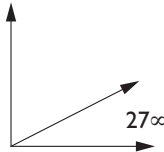


3. \_\_\_\_\_

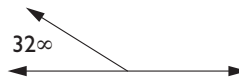


**B** Find and write the complement or supplement in degrees.

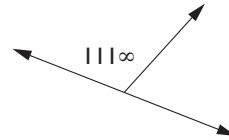
4. \_\_\_\_\_



5. \_\_\_\_\_

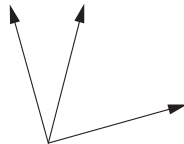


6. \_\_\_\_\_

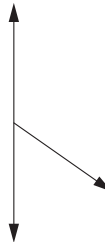


**C** Measure each angle with a protractor. Write the angle measure in the appropriate angle.

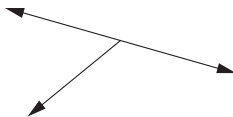
7.



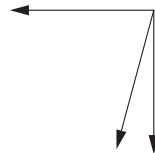
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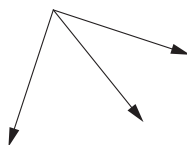
8.



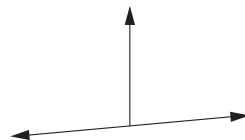
11.



9.



12.





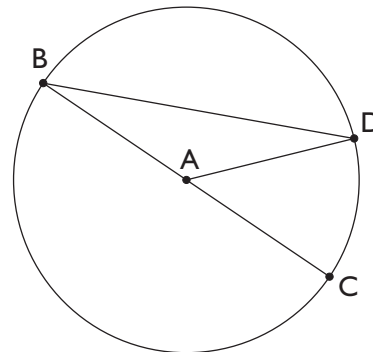
# CIRCLES

Name 

Date 

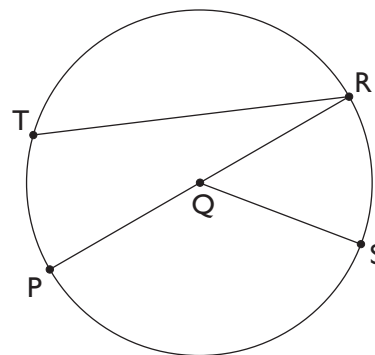
**A** Indicate the parts of the circle using symbols.

1. center \_\_\_\_\_
2. diameter \_\_\_\_\_
3. chord \_\_\_\_\_ , \_\_\_\_\_
4. radius \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_
5. arc \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_
6. central angle \_\_\_\_\_ , \_\_\_\_\_



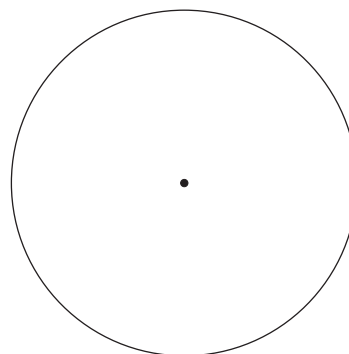
**B** Write the name of the part of the circle for each written symbol. Use the words listed in Part A above. Use each word only once.

7.  $\overline{RT}$  \_\_\_\_\_
8.  $\widehat{RT}$  \_\_\_\_\_
9.  $\overline{QS}$  \_\_\_\_\_
10.  $\angle RQS$  \_\_\_\_\_
11.  $Q$  \_\_\_\_\_
12.  $\overline{RP}$  \_\_\_\_\_



**C** Draw and label the parts of the circle with the letters indicated.

13. circle  $T$
14. diameter  $WX$
15. radius  $TV$
16. chord  $WV$
17. acute central angle  $WTV$
18. arc  $VX$



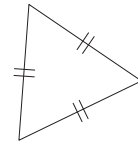
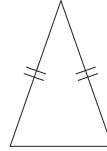
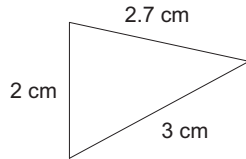
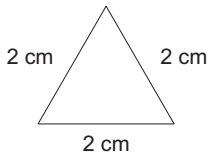
# TYPES OF TRIANGLES

Name

Date

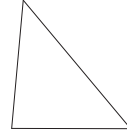
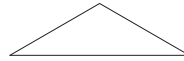
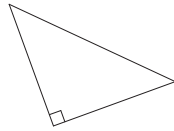
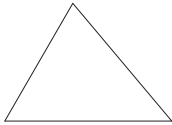
**A** Classify triangles by sides. Write the word *equilateral*, *isosceles*, or *scalene*.

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_



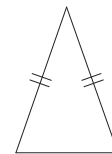
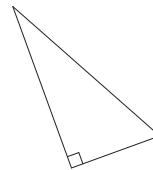
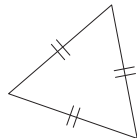
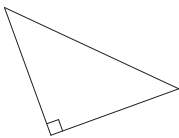
**B** Classify the triangles by angles. Write the word *right*, *acute*, or *obtuse*.

5. \_\_\_\_\_ 6. \_\_\_\_\_ 7. \_\_\_\_\_ 8. \_\_\_\_\_

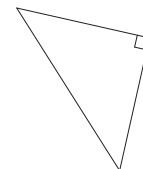
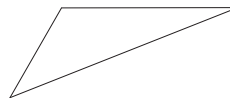
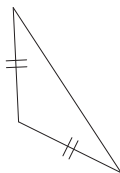
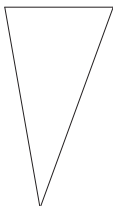


**C** Classify the triangles by sides and angles. Write two words to describe each triangle.

9. \_\_\_\_\_ 11. \_\_\_\_\_ 13. \_\_\_\_\_ 15. \_\_\_\_\_  
 \_\_\_\_\_



10. \_\_\_\_\_ 12. \_\_\_\_\_ 14. \_\_\_\_\_ 16. \_\_\_\_\_  
 \_\_\_\_\_



# FIND UNKNOWN ANGLE MEASURES

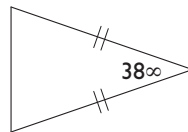
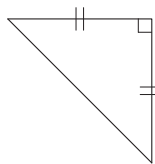
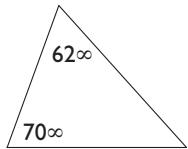
Name

Date

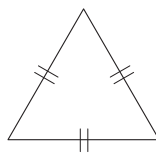
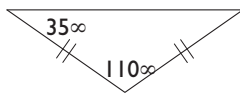
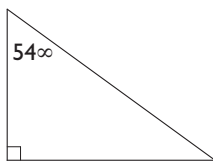
**A** Find the unknown angle measures for each triangle.

**Remember** The sum of all the angles of a triangle is 180 degrees.

1. \_\_\_\_\_ 3. \_\_\_\_\_ 5. \_\_\_\_\_



2. \_\_\_\_\_ 4. \_\_\_\_\_ 6. \_\_\_\_\_



**B** Find the measure of the third angle of these triangles. Then classify the type of triangle by writing two words from the list below. Finally, use a protractor and straightedge to draw and label each triangle in the space provided.

acute      equilateral      isosceles      obtuse      right      Scalene

7. 45, 45, \_\_\_\_\_

8. 80, 60, \_\_\_\_\_

9. 30, 60, \_\_\_\_\_

\_\_\_\_\_  
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