Name _____ Date _____ Class _____

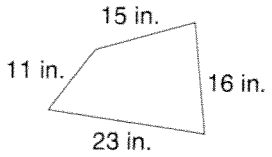
LESSON 10-1

Practice B

Finding Perimeter

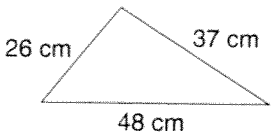
Find the perimeter of each figure.

1.



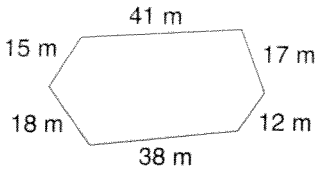
_____

2.



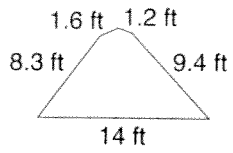
_____

3.



_____

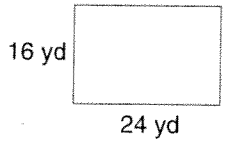
4.



_____

Find the perimeter *P* of each rectangle.

5.



_____

6.

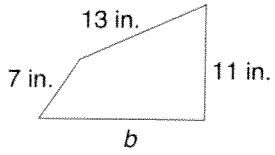
_____

7.

_____

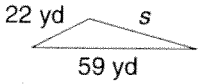
Find the unknown measure.

8. What is the length of side *b* if the perimeter equals 47 in.?



_____

9. What is the length of side *s* if the perimeter equals 119 yd?



_____

10. Benjamin is putting a fence around his rectangular-shaped yard. The yard is 38 feet long and 27 feet wide. How many feet of fencing does Benjamin need to surround his entire yard?

_____

11. If you drove from Bakersville to Salem and then to San Mateo, your entire 81-mile journey would form a triangle. The distance from Salem to San Mateo is 24 miles. The distance from Bakersville to San Mateo is 40 miles. How many miles is it from Salem to Bakersville?

_____

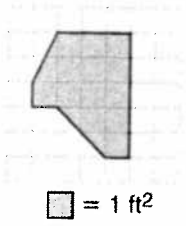
Name _____ Date _____ Class _____

LESSON 10-2

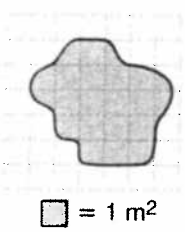
Practice B

Estimating and Finding Area

Estimate the area of each figure.

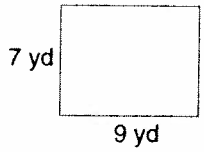
1. 

_____

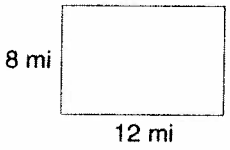
2. 

_____

Find the area of each rectangle.

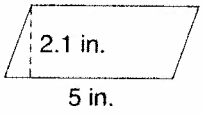
3. 

_____

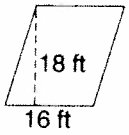
4. 

_____

Find the area of each parallelogram.

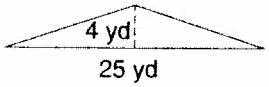
5. 

_____

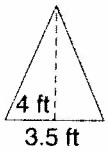
6. 

_____

Find the area of each triangle.

7. 

_____

8. 

_____

9. A section of a stained-glass window is shaped like a parallelogram. Its base is 6.5 inches, and its height is 4 inches. How much glass is needed to cover the section completely?

_____

10. Your rectangular yard is 10 feet wide and 26 feet long. How many square feet of grass do you need to plant if you want to cover the entire yard?

_____

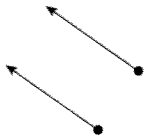
Name _____ Date _____ Class _____

LESSON 7-10

Practice B

Transformations

Tell whether each is a translation, rotation, or reflection.

1. 

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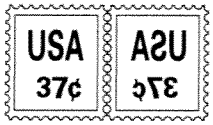
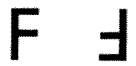
2. 

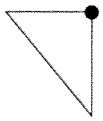
_____

3. 

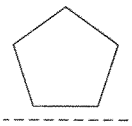
_____

Draw each transformation.

4. Draw a 180° clockwise rotation about the point.



5. Draw a vertical reflection across the dotted line.



6. Without using reflections, how can you get this △ to look like this ▽?

_____

_____

7. Describe a horizontal reflection of the word **MOM**. Can you think of any other words that would have a similar horizontal reflection?

_____

_____

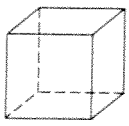
Name _____ Date _____ Class _____

LESSON 10-6

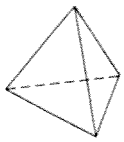
Practice B

Solid Figures

Identify the number of faces, edges, and vertices in each solid figure.

1. 

_____
_____
_____

2. 

_____
_____
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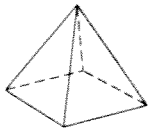
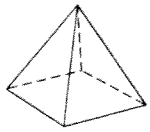
3. 

_____
_____
_____

Tell whether each figure is a polyhedron and name the solid.

4. 

_____
_____

5. 

_____
_____

6. 

_____
_____

7. Kelly wants to make a box in the shape of a cube. How many pieces of wood does she need? In what shape should she cut them? Explain.

_____

8. Kwan made a sculpture in the shape of a polyhedron. It only has one base that is a triangle. What solid figure is her sculpture? Explain your reasoning.

_____
_____

Name _____ Date _____ Class _____

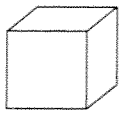
LESSON 10-8

Practice B

Finding Volume

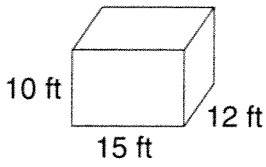
Find the volume of each rectangular prism.

1.



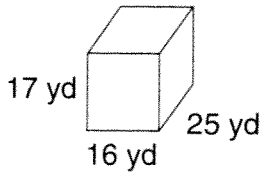
_____

2.



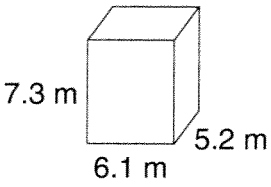
_____

3.



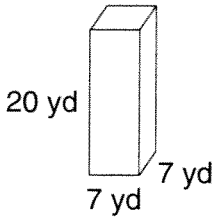
_____

4.



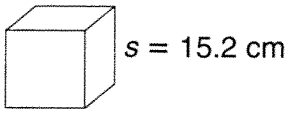
_____

5.



_____

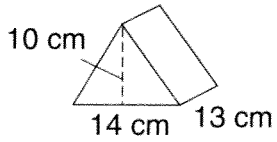
6.



_____

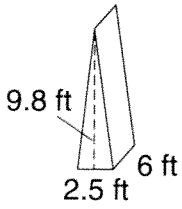
Find the volume of each triangular prism.

7.



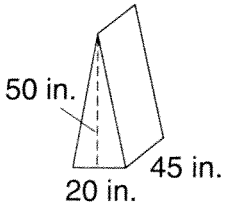
_____

8.



_____

9.



_____

10. Fawn built a sandbox that is 6 feet long, 5 feet wide, and $\frac{1}{2}$ foot tall. How many cubic feet of sand does she need to fill the box?

_____

11. Unfinished lumber is sold in units called board feet. A board foot is the volume of lumber contained in a board 1 inch thick, 1 foot wide, and 1 foot long. How many cubic inches of wood are in 1 board foot?

_____

Name _____ Date _____ Class _____

LESSON 10-1 Problem Solving
Finding Perimeter

Write the correct answer.

1. Use a ruler to find the perimeter of your math textbook in inches.

_____

_____

2. Use a ruler to find the perimeter of your desk in feet and inches.

_____

_____

3. The world's largest flag weighs 3,000 pounds and requires at least 500 people to set up! This United States flag is 505 feet long and 255 feet wide. What is the perimeter of this United States flag?

_____

4. Students in Lisbon, Ohio, built the world's largest mousetrap in 1998. The mousetrap is 9 feet 10 inches long and 4 feet 5 inches wide—and it actually works! What is the perimeter of the mousetrap in feet and inches?

_____

5. The giant ball dropped every New Year's Eve in New York City is covered with 504 crystal equilateral triangles. The average perimeter of each triangle is $15\frac{3}{4}$ inches. What is the average side length of each crystal triangle on the ball?

_____

6. United States dollar bills are 2.61 inches wide and 6.14 inches long. Larger notes in circulation before 1919 measured 3.125 inches wide by 7.4218 inches long. What is the difference between the old and new dollar bill perimeters?

_____

Circle the letter of the correct answer.

7. The perimeter of regular octagon-shaped swimming pool is 42 feet. What is the length of each side of the pool?

A 5 feet **C** 5 feet 2 inches

B 5 feet 3 inches **D** 5.2 feet

8. Each Scrabble® tile is 1.8 centimeters wide and 2.1 centimeters tall. If the tiles spell the word LOVE, what is the perimeter of the entire word?

F 7.8 cm **H** 12 cm

G 18.6 cm **J** 31.2 cm

Name _____ Date _____ Class _____

LESSON 10-2 Problem Solving
Estimating and Finding Area

Use the table to answer each question.

State Information

State	Approx. Width (mi)	Approx. length (mi)	Water Area (mi^2)
Colorado	280	380	376
Kansas	210	400	462
New Mexico	343	370	234
North Dakota	211	340	1,724
Pennsylvania	160	283	1,239

1. New Mexico is the 5th largest state in the United States. What is its approximate total area?

_____

2. Kansas is the 15th largest state in the United States. What is its approximate total area?

_____

3. What is the difference between North Dakota's land area and water area?

_____

4. What is Pennsylvania's approximate land area?

_____

5. What is the difference between Colorado's land area and Pennsylvania's land area?

_____

6. About what percent of the total area of Pennsylvania is covered by land?

_____

Circle the letter of the correct answer.

7. Rhode Island is the smallest state. Its total land area is approximately 1,200 mi^2. Rhode Island is approximately 40 miles long. About how wide is Rhode Island?

   A about 20 mi

   B about 40 mi

   C about 50 mi

   D about 30 mi

8. The entire United States covers 3,794,085 square miles of North America. About how much of that area is not made up of the 5 states in the chart?

   F 2,537,470 mi^2

   G 3,359,755 mi^2

   H 3,686,525 mi^2

   J 3,1310,818 mi^2

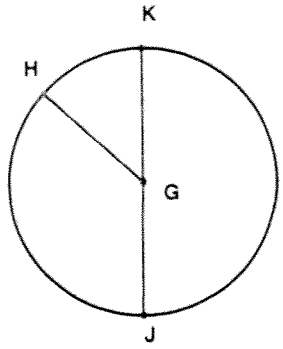
Name : _____ Score : _____

Teacher : _____ Date : _____

Circumference Worksheet

Solve the missing elements for each problem. Use 3.14 for π. ; $C = \pi D$

1)

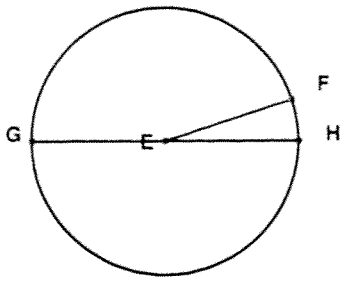


Radius: 9 inches

Diameter: _____

Circumference: _____

2)

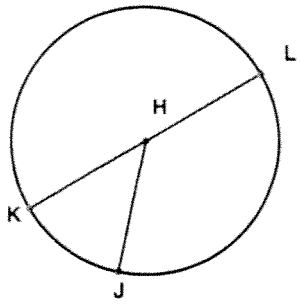


Radius: _____

Diameter: 8 inches

Circumference: _____

3)

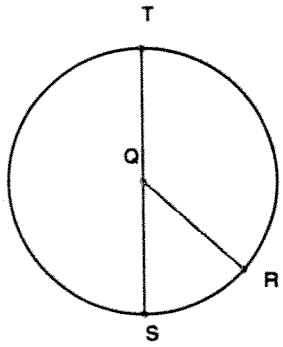


Radius: 11 inches

Diameter: _____

Circumference: _____

4)

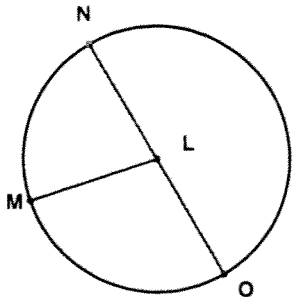


Radius: 17 inches

Diameter: _____

Circumference: _____

5)

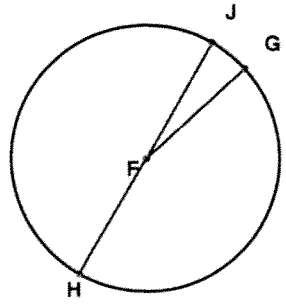


Radius: _____

Diameter: 12 inches

Circumference: _____

6)

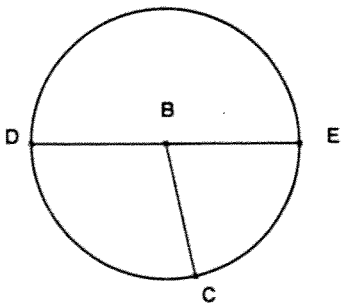


Radius: _____

Diameter: 20 inches

Circumference: _____

7)

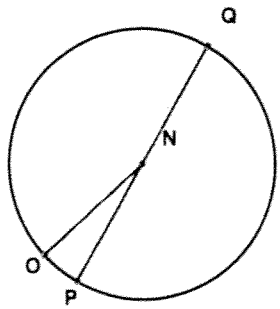


Radius: 19 inches

Diameter: _____

Circumference: _____

8)

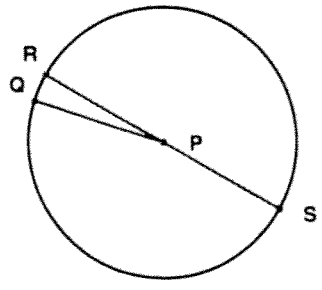


Radius: _____

Diameter: 24 inches

Circumference: _____

9)



Radius: _____

Diameter: 14 inches

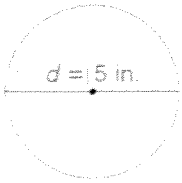
Circumference: _____

Area of a Circle

Math Homework
10.5 Objective

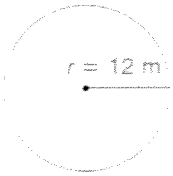
Name_____
Period_____

1) Find each missing value to the nearest hundredth. Use 3.14 for π.



C=_____

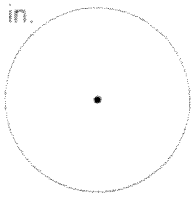
2) Find each missing value to the nearest hundredth. Use 3.14 for π.



C=_____

3) Find each missing value to the nearest hundredth. Use 3.14 for π.

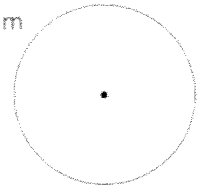
C = 87.92 in.



d=_____

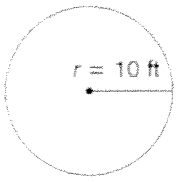
4) Find each missing value to the nearest hundredth. Use 3.14 for π.

C = 15.7 m



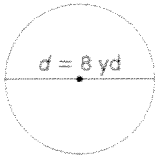
r=_____

5) Find area to the nearest hundredth. Use 3.14 for π.



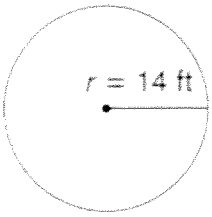
A=_____

6) Find area to the nearest hundredth. Use 3.14 for π.



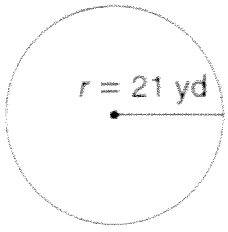
A=_____

7) Find area to the nearest hundredth. Use 3.14 for π.



A=_____

8) Find area to the nearest hundredth. Use 3.14 for π.



A=_____