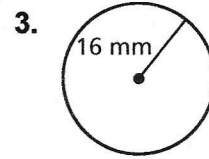
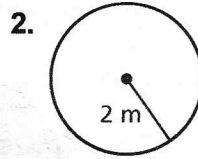
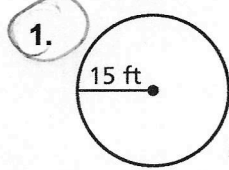
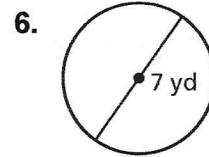
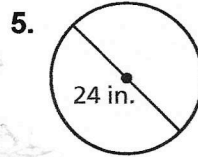
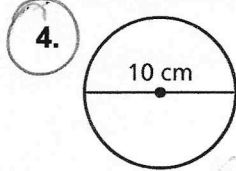


8.1 Practice A

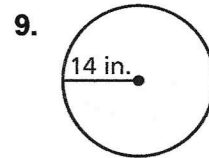
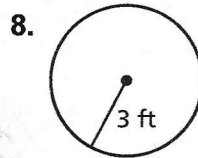
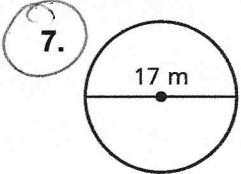
Find the diameter of the circle.



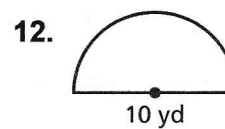
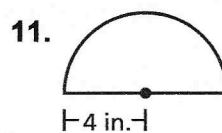
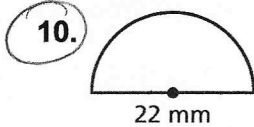
Find the radius of the circle.



Find the circumference of the circle. Use 3.14 or $\frac{22}{7}$ for π .



Find the perimeter of the semicircular region.



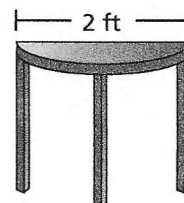
13. A circular ink spot has a circumference of 25.12 millimeters. A minute later, it has a circumference of 75.63 millimeters.

- Estimate the diameter of the ink spot each minute.
- How many times greater is the diameter of the ink spot compared to the previous minute?

14. You are enclosing a circular flower garden with a fence that costs \$2.99 per foot. The radius of the garden is 7 feet. How much will it cost to buy the fence?

(Use $\frac{22}{7}$ for π .)

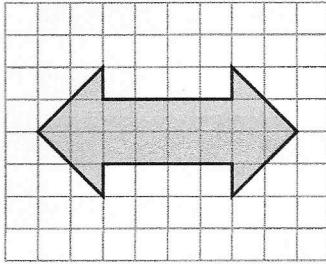
15. Find the perimeter of the semicircular tabletop shown at the right.



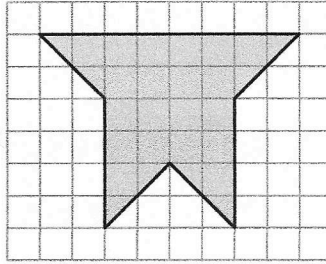
8.2 Practice A

Estimate the perimeter of the figure.

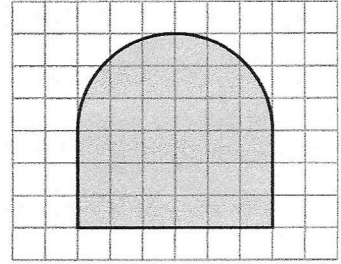
1.



2.

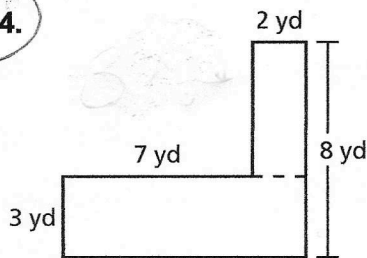


3.

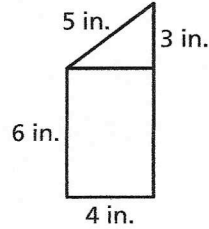


Find the perimeter of the figure.

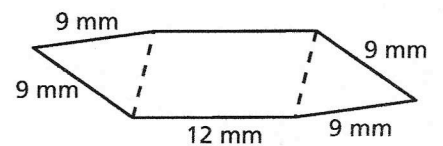
4.



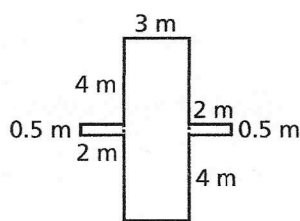
5.



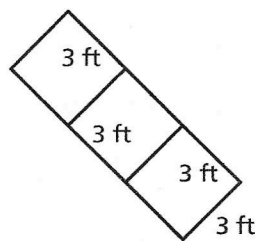
6.



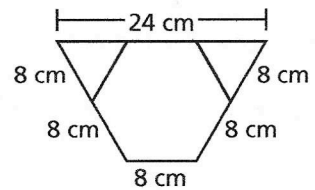
7.



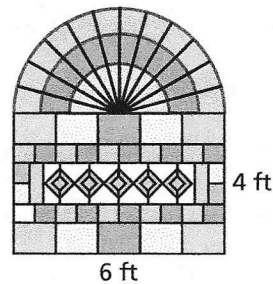
8.



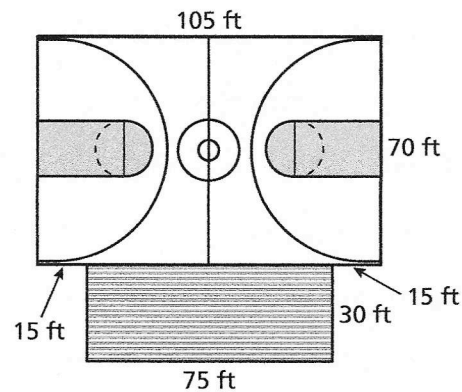
9.



10. A stained glass window has the dimensions shown. What is the perimeter of the hole that should be cut in the wall in order for the window to be installed?

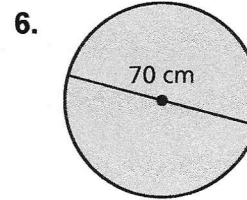
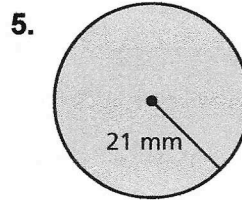
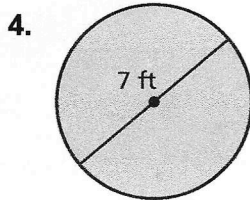
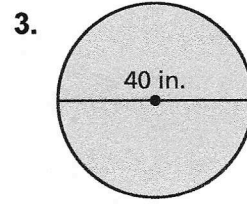
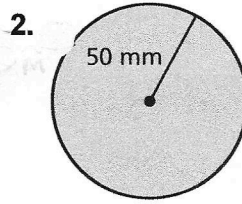
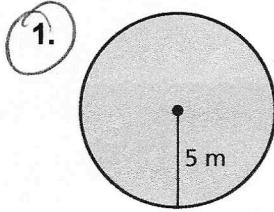


11. The dimensions of a new city park basketball court are shown at the right. A fence is to be built around the court and bleachers. The fence costs \$8.99 per foot. How much will it cost to install the fence?

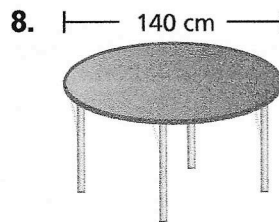
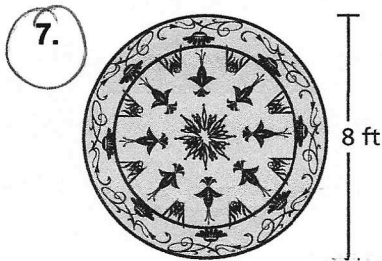


8.3 Practice A

Find the area of the circle. Use 3.14 or $\frac{22}{7}$ for π .



Find the area of the object.



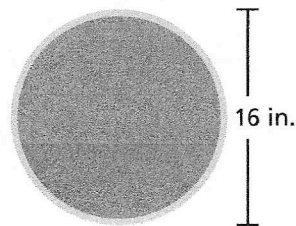
10. You use the compass to draw a circle. What will be the area of the circle?



11. What fraction of a square inch is the area of one side of a penny? Use $\frac{22}{7}$ for π . Write your answer in simplest form.

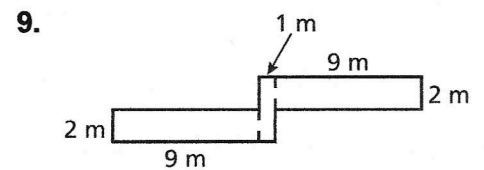
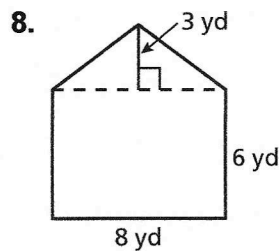
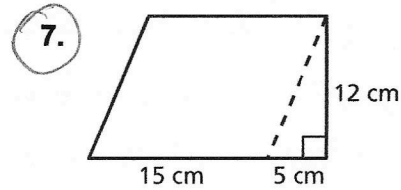
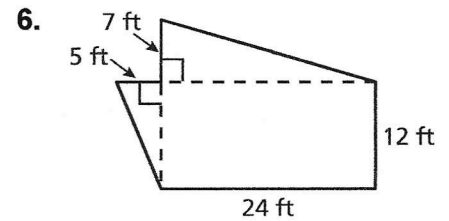
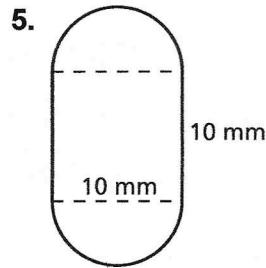
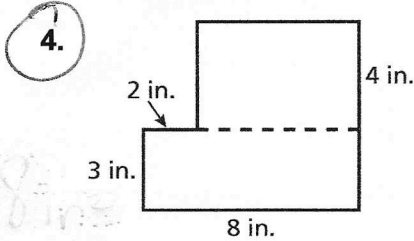
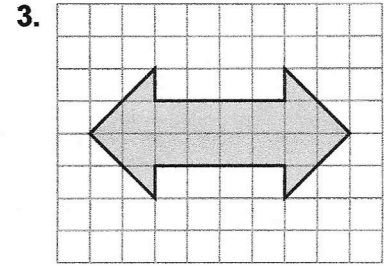
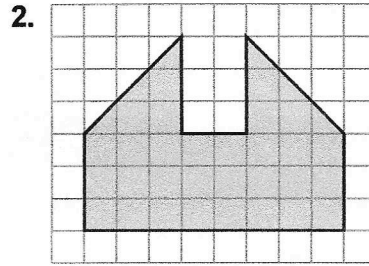
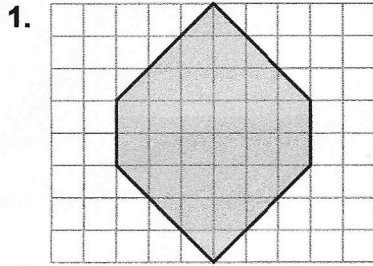


12. To make a pizza, you spread pizza sauce over all but a 1-inch area around the outside edge as shown. What area of the crust is covered with sauce?

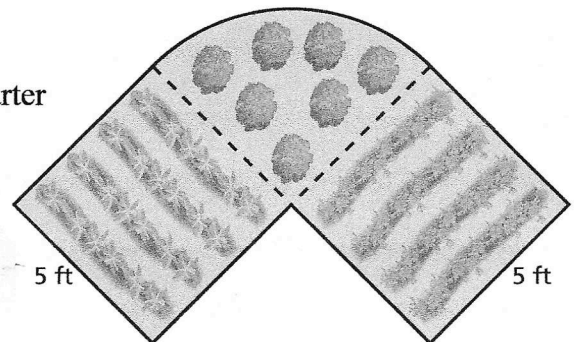


8.4 Practice A

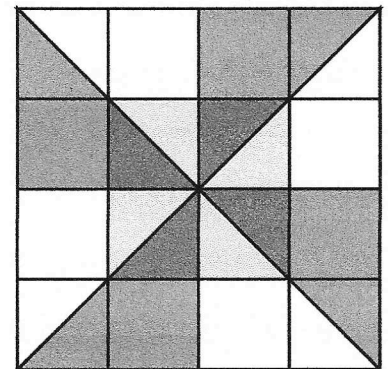
Find the area of the figure.



10. A garden is made up of two squares and a quarter circle. What are the perimeter and area of the garden?



11. A pinwheel design for a quilt is shown at the right. Each square of the design has a side length of 3 inches.
- Find the total area of the design.
 - Find the total area of the four large shaded triangles.
 - The quilt will be made of 30 pinwheel designs. The material to make the large triangles costs \$0.08 per square inch. How much will it cost to purchase the material to make the triangles for the quilt?

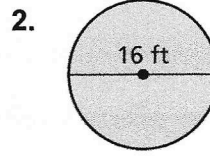
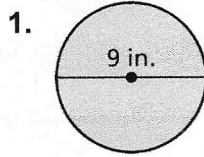


**Chapter
8**

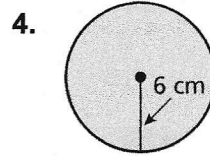
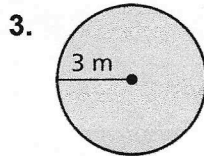
Take Home Quiz #1

For use after Section 8.2

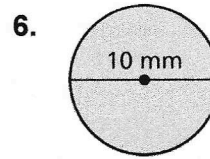
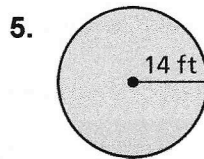
Find the radius of the circle.



Find the diameter of the circle.

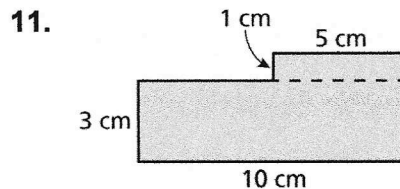
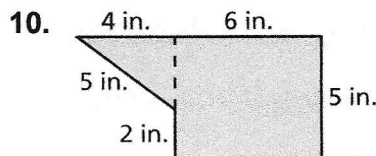
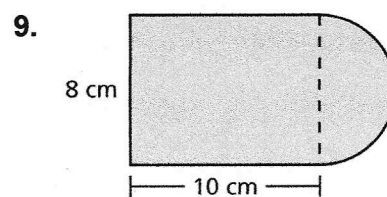
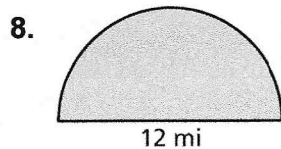


Find the circumference of the circle. Use 3.14 or $\frac{22}{7}$ for π .

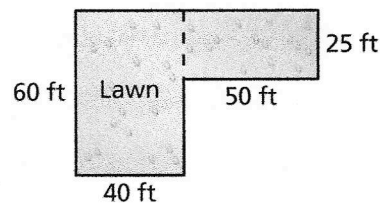


7. Your bedroom is in the shape of a square that is 12 feet long on each side. Will a circular rug with a circumference of 40.82 feet fit into your room? If not, by how many feet is the rug too wide?

Find the perimeter of the figure.



12. You are burying an invisible dog fence around the perimeter of your lawn. How many feet of fencing do you need?



Answers

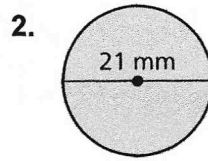
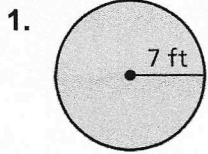
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Chapter 8

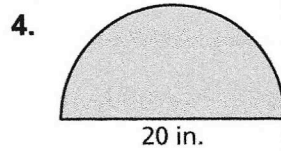
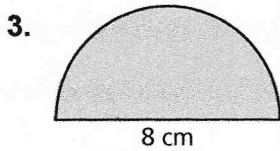
Take Home Quiz #2

For use after Section 8.4

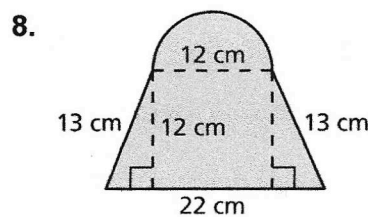
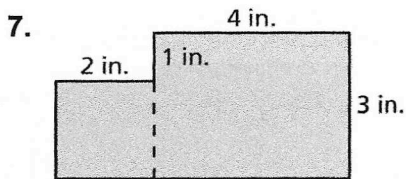
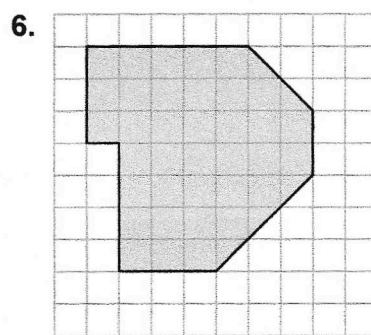
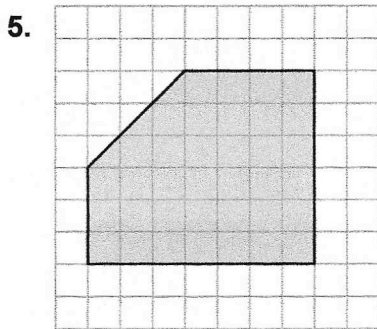
Find the area of the circle. Use 3.14 or $\frac{22}{7}$ for π .



Find the area of the semicircle.

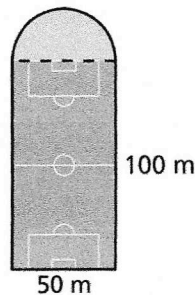


Find the area of the figure.



9. The circle on a wrestling mat has a diameter of 32 feet. What is the area?

10. A field is shaped like a rectangle with a semicircle at the end. What is the area of the field?



Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____