Name _____ **Date** _____
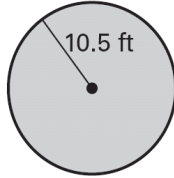
Practice B
For use with pages 755–761

Find the exact area of the circle. Then find the area to the nearest hundredth.
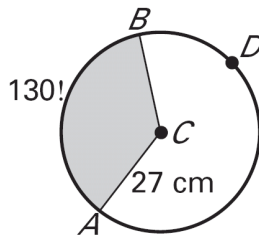
1.

10.5 ft

2.

24.8 cm
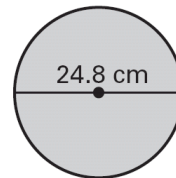
Find the indicated measure.

3. The area of a circle is 173 square inches. Find the radius.

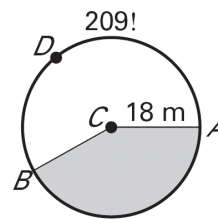**4.** The area of a circle is 528 square feet. Find the diameter.
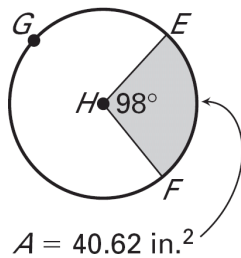
Find the areas of the sectors formed by ∠ACB.

5.

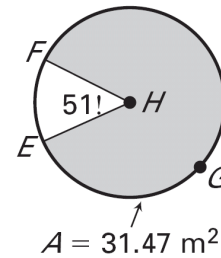B

D

130!

C

27 cm

A

6.

209!

D

C 18 m

A

B

Use the diagram to find the indicated measure.

7. Find the radius of ⊙H.

G   E

H● 98°

F

$A = 40.62$ in.^{2}

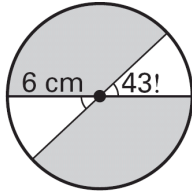**8.** Find the diameter of ⊙H.

F

51! ●H

E

G

$A = 31.47$ m^2

The area of ⊙R is 295.52 square inches. The area of sector PRQ is 55 square inches. Find the indicated measure.

9. Radius of ⊙R
10. Circumference of ⊙R
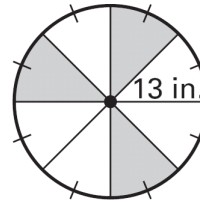11. $m\widehat{PQ}$
12. Length of $\widehat{PQ}$
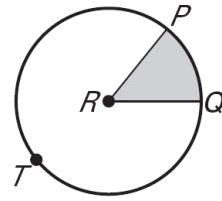
Find the area of the shaded region.

13.

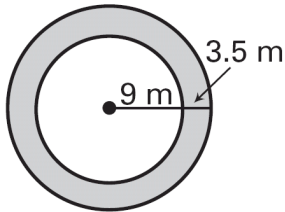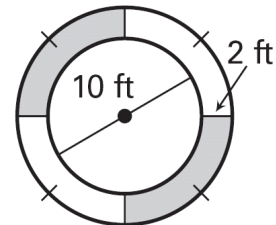6 cm 43!
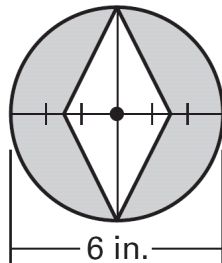
14.

13 in.

15.

3.5 m
9 m

16.

10 ft 2 ft

17.

6 in.
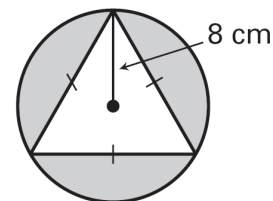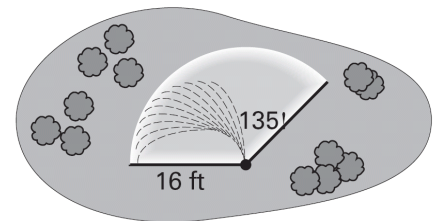
18.

8 cm

20. A circular water fountain has a diameter of 42 feet. Find the area of the fountain.

21. The diagram at the right shows the area of a lawn covered by a water sprinkler.
   a. What is the area of the lawn that is covered by the sprinkler?

   135!
   16 ft

   b. The water pressure is weakened so that the radius is 10 feet. What is the area of lawn that will be covered?