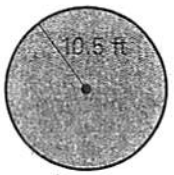
Find the exact area of the circle. Then find the area to the nearest hundredth.

1.

2.



3.

Find the indicated measure.

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

5. The area of a circle is 290 square meters. Find the radius.

6. The area of a circle is 52 square millimeters. Find the radius.

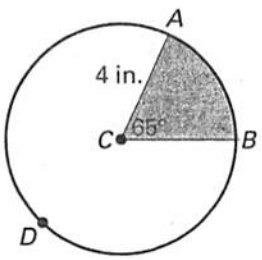
7. The area of a circle is 342 square yards. Find the diameter.

8. The area of a circle is 654 square centimeters. Find the diameter.

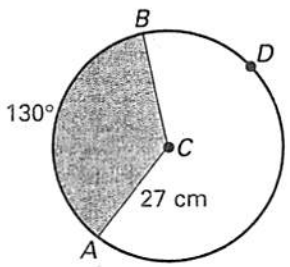
9. The area of a circle is 528 square feet. Find the diameter.

Find the areas of the sectors formed by $\angle ACB$.

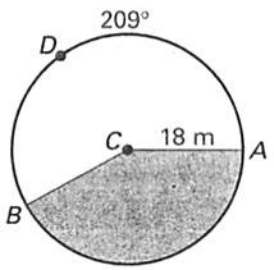
10.



11.

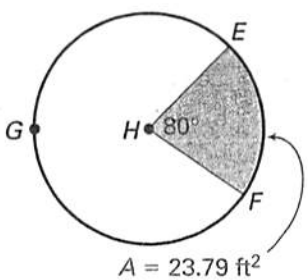


12.

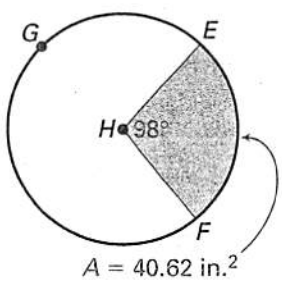


Use the diagram to find the indicated measure.

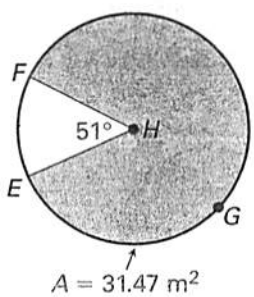
13. Find the area of $\odot H$.



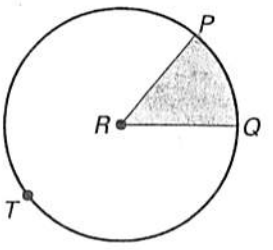
14. Find the radius of $\odot H$.



15. Find the diameter of $\odot H$.



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



16. Radius of $\odot R$

17. Circumference of $\odot R$

18. $m\widehat{PQ}$

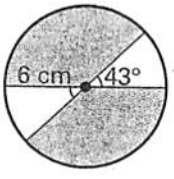
19. Length of $\widehat{PQ}$

20. Perimeter of shaded region

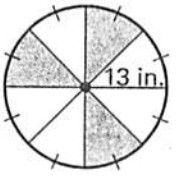
21. Perimeter of unshaded region

Find the area of the shaded region.

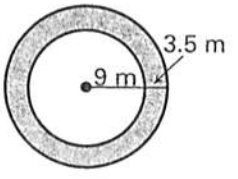
22.



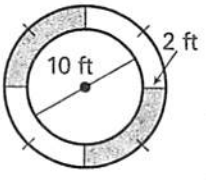
23.



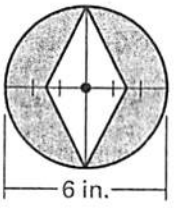
24.



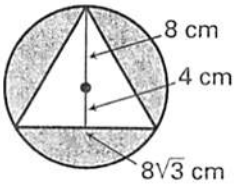
25.



26.

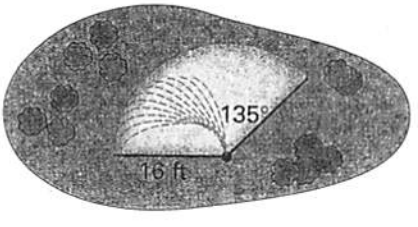


27.



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

29. Landscaping The diagram below 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?

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

30. Window Design The window shown is in the shape of a semicircle. Find the area of the glass in the shaded region.