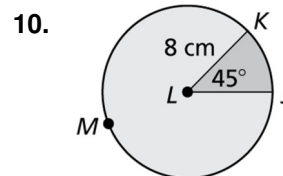
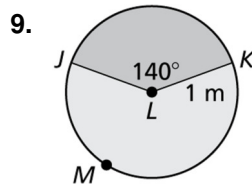
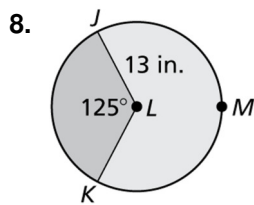
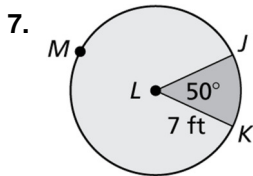


11.2 Practice A

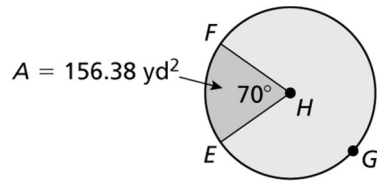
In Exercises 1–4, find the indicated measure.

1. area of a circle with a radius of 6.8 feet
2. area of a circle with a diameter of 19.2 centimeters
3. radius of a circle with an area of 1017.9 square meters
4. diameter of a circle with an area of 707 square inches

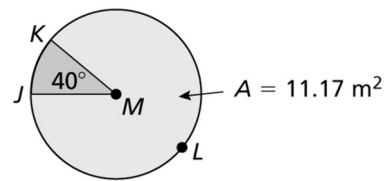
In Exercises 7–10, find the areas of the sectors formed by $\angle JLK$.



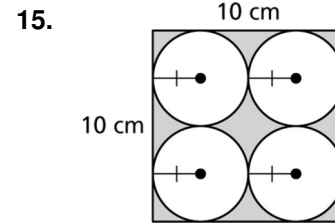
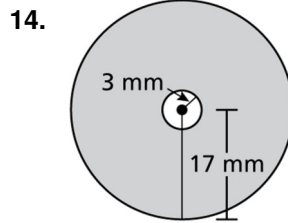
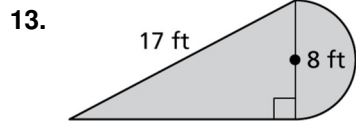
11. Find the area of $\odot H$.



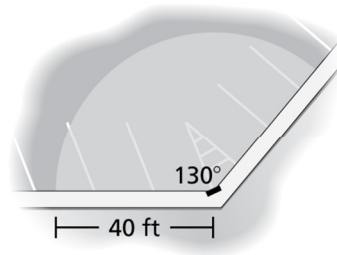
12. Find the area of $\odot M$.



In Exercises 13–15, find the area of the shaded region.



16. The diagram shows the coverage of a security camera outside a building. A new security camera is installed in the same position that doubles the radius of the coverage area. How does this affect the coverage area? Explain.



11.2 Practice A

1. 145.27 ft^2
2. 289.53 cm^2
3. 18 m
4. 30 in.
5. about $10,610 \text{ people/mi}^2$
6. about 883,573 people
7. about 21.38 ft^2 , about 132.56 ft^2
8. about 184.35 in.^2 , about 346.58 in.^2
9. about 1.22 m^2 , about 1.92 m^2
10. about 25.13 cm^2 , about 175.93 cm^2
11. 804.24 yd^2
12. about 12.57 m^2
13. about 85.13 ft^2
14. about 879.65 mm^2
15. about 21.46 cm^2
16. coverage area is 4 times greater;
$$\frac{\text{new coverage area}}{\text{old coverage area}} \approx \frac{7260.57 \text{ ft}^2}{1815.14 \text{ ft}^2} \approx 4$$