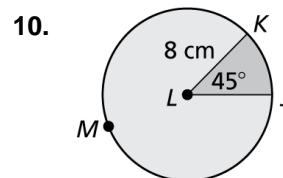
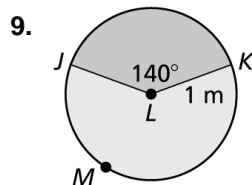
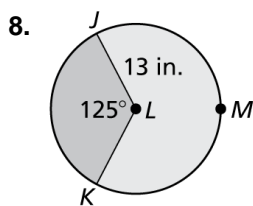
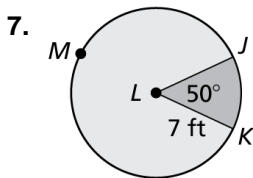


11.2 Practice A

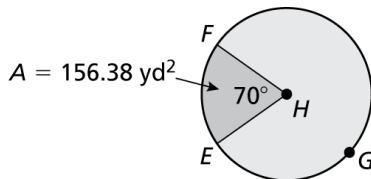
In Exercises 1–4, find the indicated measure.

- area of a circle with a radius of 6.8 feet
- area of a circle with a diameter of 19.2 centimeters
- radius of a circle with an area of 1017.9 square meters
- diameter of a circle with an area of 707 square inches
- About 1.2 million people live in a region with a 6-mile radius. Find the population density in people per square mile.
- A region with a 15-mile diameter has a population density of about 5000 people per square mile. Find the number of people who live in the region.

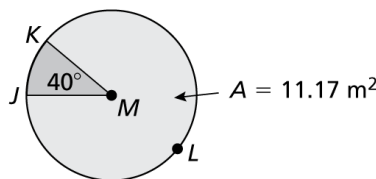
In Exercises 7–10, find the areas of the sectors formed by $\angle JLK$.



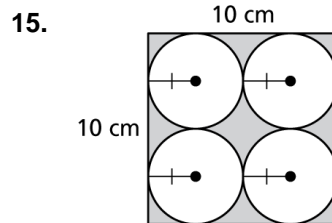
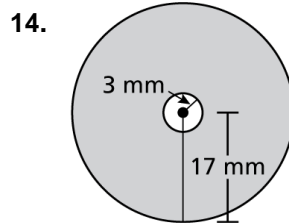
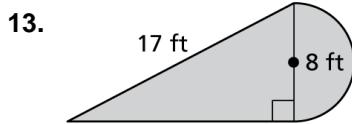
11. Find the area of $e H$.



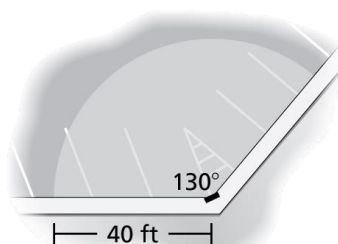
12. Find the area of $e M$.



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.



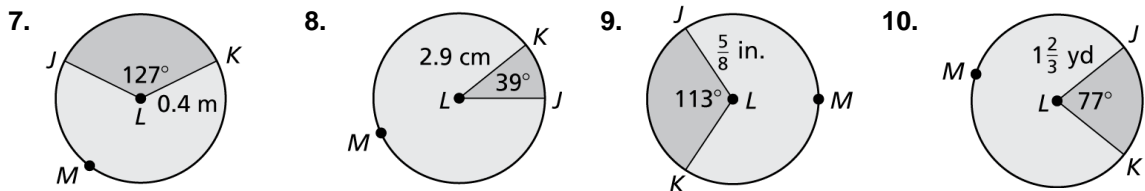
11.2

Practice B

In Exercises 1–4, find the indicated measure.

- area of a circle with a radius of 6.75 inches
- area of a circle with a diameter of $\frac{3}{10}$ mile
- radius of a circle with an area of 63.7 square kilometers
- diameter of a circle with an area of 1040.62 square yards
- About 150,000 people live in a circular region with a population density of about 1578 people per square mile. Find the radius of the region.
- About 1.75 million people live in a circular region with a population density of about 5050 people per square mile. Find the radius of the region.

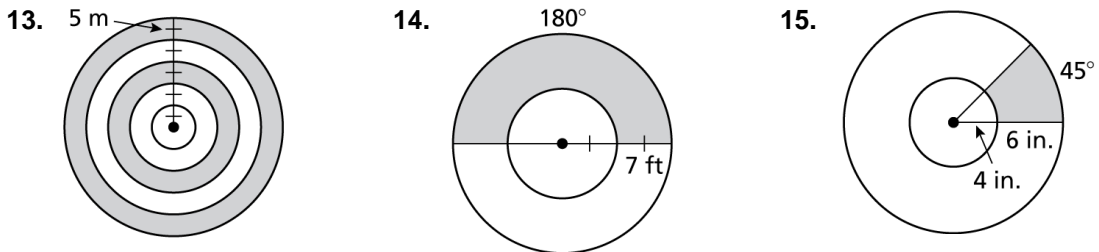
In Exercises 7–10, find the areas of the sectors formed by $\angle JLK$.



- Find the radius of $e H$.
- Find the radius of $e M$.



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



- A piece of cake is a sector of a cylinder as shown. What is the volume of the piece of cake?

