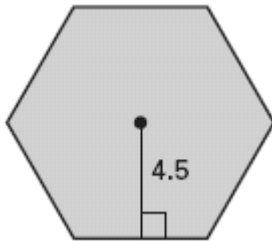**LESSON 11.6**
Practice C
For use with pages 762–769

Find the measure of a central angle of a regular polygon with the given number of sides. Round answers to the nearest tenth of a degree, if necessary.
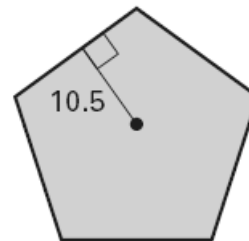 1. 15 sides
  2. 25 sides
  3. 32 sides
  4. 70 sides

  5. A regular octagon has a radius of 11.5 inches. What is the length of its apothem? Round your answer to the nearest tenth.

  6. A regular decagon has a diameter of 35 meters. What is the length of its apothem? Round your answer to the nearest tenth.
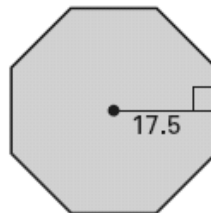
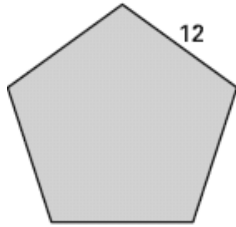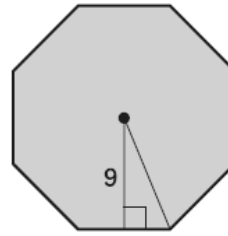**Find the area of the regular polygon.**

  7.

  8.

  9.

10. What is the area of an equilateral triangle with radius 15 centimeters? Round your answer to the nearest tenth, if necessary.

11. What is the area of a square with diagonal 6.3 centimeters? Round your answer to the nearest tenth, if necessary.

Find the perimeter and area of the regular polygon. Round answers to the nearest tenth, if necessary.
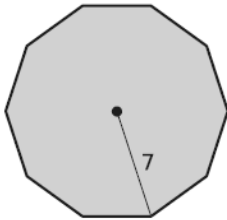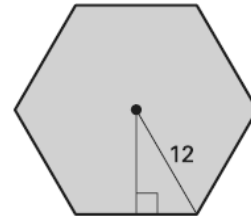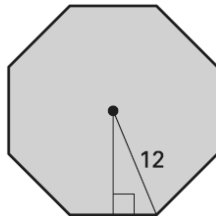
12.

12

13.

9

14.
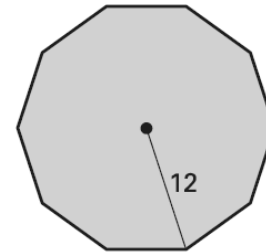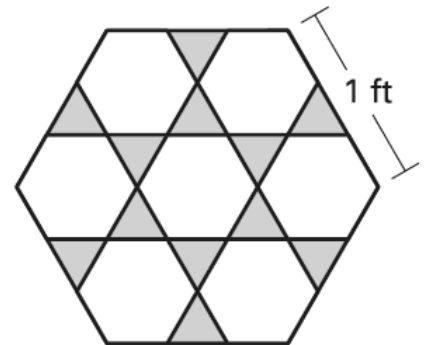

7

15.

12

16.

12

17.

12

Use the diagram of ceramic tiling shown.

18. Find the area of one regular triangle.

19. Find the area of one regular hexagon.

20. What percent of the tiling is shaded?

21. The cost of ceramic tiling is $.025 per square inch. What is the cost of the design shown?

1 ft