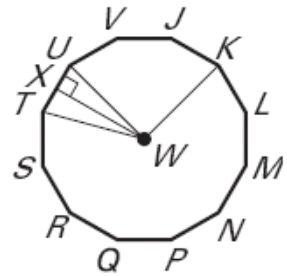**Name** _____ **Date** _____

Practice B
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. 20 sides
   2. 36 sides
   3. 120 sides
   4. 23 sides

Find the given angle measure for the regular dodecagon shown.
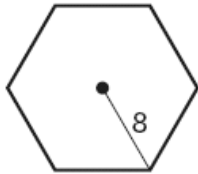   5. $m\angle TWU$
   6. $m\angle TWX$
   7. $m\angle XUW$
   8. $m\angle TWK$
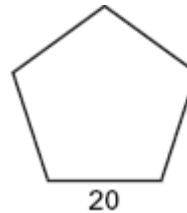   9. $m\angle UWK$
   10. $m\angle XWK$

   12. A regular hexagon has a diameter 22 inches. What is the length of its apothem? Round your answer to the nearest tenth.

   13. A regular octagon has a diameter 8.5 feet. What is the length of its apothem? Round your answer to the nearest tenth.

Find the perimeter and area of the regular polygon. Round answers to the nearest tenth, if necessary.
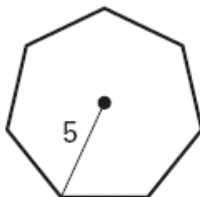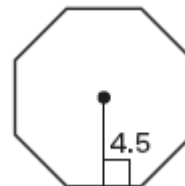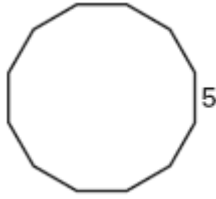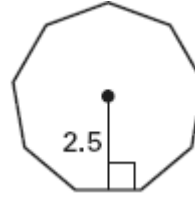
14.

15.

16.
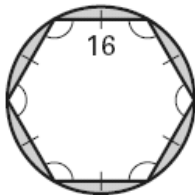

17.

18.

5

19.

2.5

20. What is the area of a regular 24-gon with a side length of 10 inches? Round your answer to the nearest tenth, if necessary.

21. What is the area of a regular 30-gon with a radius of 20 feet? Round your answer to the nearest tenth, if necessary.
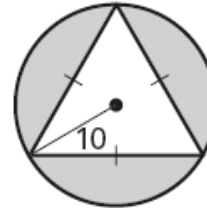
22. Find the area of a regular pentagon inscribed in a circle whose equation is given by $(x - 4)^2 + (y - 6)^2 = 16$.

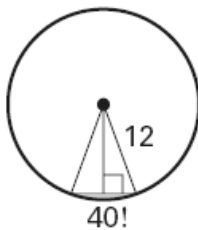**Find the area of the shaded region. Round answers to the nearest tenth, if necessary**

23.

16

24.

10

25.

12

40!

26.

72! 16