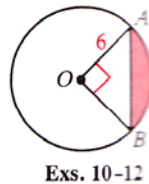
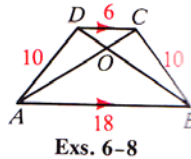


Chapter 11

Indicate the best answer by writing the appropriate letter.

1. One side of a rectangle is 14 and the perimeter is 44. What is the area?
a. 112 b. 210 c. 224 d. 420
2. What is the area of a square inscribed in a circle with radius 8?
a. 32 b. 64 c. $64\sqrt{2}$ d. 128
3. The area of a circle is 25π . What is its circumference?
a. 5π b. 10π c. 12.5π d. 50π
4. What is the area of a trapezoid with bases 7 and 8 and height 6?
a. 90 b. 336 c. 45 d. 168
5. A parallelogram and a triangle have equal areas. The base and height of the parallelogram are 12 and 9. If the base of the triangle is 36, find its height.
a. 3 b. 6 c. 9 d. 12
6. What is the area of trapezoid $ABCD$?
a. 96 b. 120 c. 144 d. 192
7. What is the ratio of the areas of $\triangle AOB$ and $\triangle COD$?
a. $\sqrt{3}:1$ b. $\sqrt{3}:3$ c. $3:1$ d. $9:1$
8. What is the ratio of the areas of $\triangle AOB$ and $\triangle AOD$?
a. $\sqrt{3}:1$ b. $3:1$ c. $9:1$ d. cannot be determined
9. What is the area of a regular hexagon inscribed in a circle with radius 8?
a. $16\sqrt{3}$ b. $96\sqrt{3}$ c. $128\sqrt{3}$ d. $192\sqrt{3}$
10. In the diagram, what is the length of \widehat{AB} ?
a. $6\sqrt{2}$ b. 6π c. 3π d. 36π
11. In the diagram, what is the area of the shaded region?
a. $9\pi - 36$ b. $12\pi - 36$ c. $9\pi - 18$ d. $12\pi - 18$
12. If a point is chosen at random in the interior of $\odot O$, what is the probability that the point is inside $\triangle AOB$?
a. $\frac{2}{\pi}$ b. $\frac{1}{4}$ c. $\frac{3}{2\pi}$ d. $\frac{1}{2\pi}$
13. A rhombus has diagonals 6 and 8. What is its area?
a. 12 b. 24 c. 36 d. 48
14. What is the area of a circle with diameter 12?
a. $24\pi^2$ b. 12π c. 144π d. 36π
15. What is the area of an equilateral triangle with perimeter 24?
a. $64\sqrt{3}$ b. $32\sqrt{3}$ c. $\frac{32\sqrt{3}}{3}$ d. $16\sqrt{3}$
16. What is the area of a triangle with sides 15, 15, and 24?
a. 54 b. 108 c. 180 d. 216



1)	2)
3)	4)
5)	6)
7)	8)
9)	10)
11)	12)
13)	14)
15)	16)