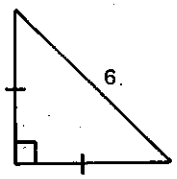
NAME Key DATE _____ SCORE _____

Practice 46
Chapter 11 Practice

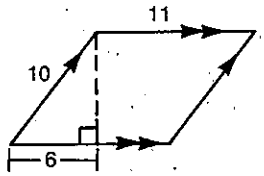
Find the area of each figure described.

1. A rectangle with width 5 m and length 13 m 65
2. A triangle with base 7 cm and height 10 cm 35
3. An equilateral triangle with side 10 $25\sqrt{3}$
4. A rhombus with diagonals 6 cm and 8 cm 24
5. A trapezoid with bases 7 and 10, and height 6 51
6. A regular hexagon with radius 4 $24\sqrt{3}$
7. A circle with radius $5\sqrt{2}$ 50π
8. Sector XOY of $\odot O$ with radius 4 and $m\angle XOY = 45$ 2π
9. A semicircle with arc length 3π $9/2\ \pi$

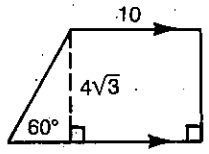
Find the area of each polygon.

10. 

$A =$ 9

11. 

$A =$ 88

12. 

$A =$ $48\sqrt{3}$

Complete the following.

13. If the radii of two circles are in the ratio 7:10, the areas are in the ratio 49:100.

14. Two similar trapezoids have corresponding bases in the ratio 2:5. If the area of the smaller trapezoid is 12, the area of the larger trapezoid is 75. $\frac{4}{25} = \frac{12}{x}$

15. A point is chosen at random inside circle O: What is the probability that the point is inside $\triangle ABC$? Use $\pi \approx 3.14$ and $\sqrt{3} \approx 1.73$. Round your answer to the nearest tenth.
0.4