

Name: _____ Period: _____

Date: _____ Row: _____

Assignment #: _____

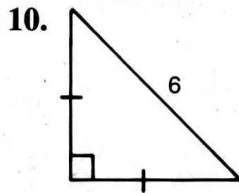
Practice 46

Chapter 11 Practice

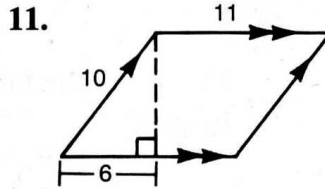
Find the area of each figure described.

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

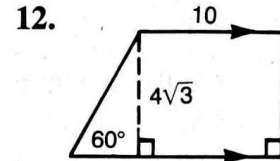
Find the area of each polygon.



$A =$ _____



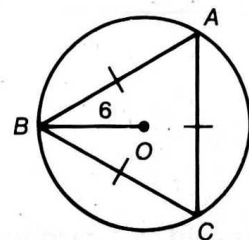
$A =$ _____



$A =$ _____

Complete the following.

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



Areas of Plane Figures

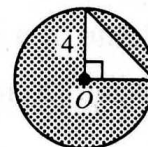
For use after Chapter 11

Find the area of each figure described.

- A rectangle with length 15 and width 12 _____
- A parallelogram with base 18 and height 9 _____
- A triangle with base 13 and height 8 _____
- A rhombus with shorter diagonal 6 cm and a 120° angle _____
- A square whose perimeter is 60 _____
- A regular hexagon with side 12 _____
- A regular pentagon with side s and apothem 3 _____
- A rhombus with diagonals 6 and 14 _____
- An isosceles trapezoid with legs 13 and bases 12 and 22

- Find the circumference and area of a circle with radius 10.
Use $\pi \approx 3.14$.
 $C \approx$ _____, $A \approx$ _____
- The area of a circle is 144π . Find the circumference. _____
- Find the area of the shaded region of $\odot O$. _____
- In circle P with diameter 10, $m\angle APB = 60$. Find the length of \widehat{AB} and the area of sector APB .
length of $\widehat{AB} =$ _____, $A =$ _____
- The ratio of the areas of two rectangles is 36 : 64. Find the scale factor and the ratio of the perimeters.
scale factor = _____, ratio of the perimeters = _____
- Two similar polygons have scale factor 3 : 4. The area of the smaller polygon is 108. Find the area of the larger polygon.

- If $\triangle ABC \sim \triangle ADE$, find the probability that a point selected at random from $\triangle ABC$ will lie inside quadrilateral $BDEC$.



Ex. 12

