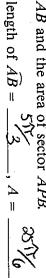
Areas of Plane Figures

For use after Chapter 11

Find the area of each figure described.

- 1. A rectangle with length 15 and width 12 $\frac{1}{8}$
- 2. A parallelogram with base 18 and height 9 110 5
- 3. A triangle with base 13 and height 8 De-
- 4. A rhombus with shorter diagonal 6 cm and a 120° angle 1873 120
- 5. A square whose perimeter is 60 AAS
- 6. A regular hexagon with side 12. みんて
- 7. A regular pentagon with side s and apothem 3 $\frac{1}{2}$
- 8. A rhombus with diagonals 6 and 14 UZ
- 9. An isosceles trapezoid with legs 13 and bases 12 and 22
- 10. Find the circumference and area of a circle with radius 10. Use $\pi \approx 3.14$.

- 11. The area of a circle is 144π . Find the circumference. 3497
- 12. Find the area of the shaded region of ⊙O. Will -8
- 13. In circle P with diameter 10, $m\angle APB = 60$. Find the length of AB and the area of sector APB.



- 14. The ratio of the areas of two rectangles is 36:64. Find the scale scale factor = factor and the ratio of the perimeters. ن غ -, ratio of the perimeters = 3,4
- 15. smaller polygon is 108. Find the area of the larger polygon. Two similar polygons have scale factor 3:4. The area of the
- 16. 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

