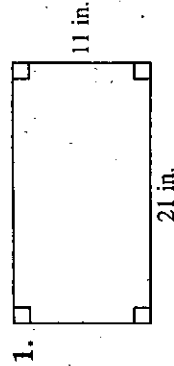


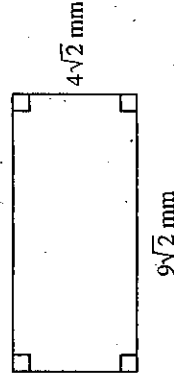
Areas of Rectangles, Parallelograms, Triangles, and Rhombuses

For use after Section 11-2

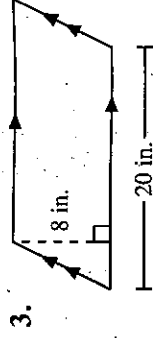
Find the area of each figure.



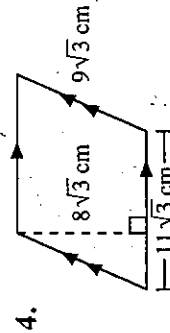
$A = 231$



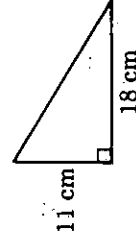
$A = 72$



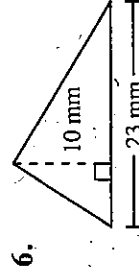
$A = 160$



$A = 264$



$A = 99$



$A = 115$

 7. Find the height of a rectangle with base 12 cm and area 84 cm^2 . 7

 8. Find the base of a parallelogram with height 5 in. and area 95 in.^2 . 19

 9. Find the area of an isosceles triangle with base 8 and perimeter 20. 8\sqrt{5}

 10. Find the area of an equilateral triangle with perimeter 24. 16\sqrt{3}

 11. Find the area of a square whose perimeter is 80 cm. 400

 12. If the base of a parallelogram is $x + 5$, and the height is $x - 5$,

 express the area in terms of x . $x^2 - 25$

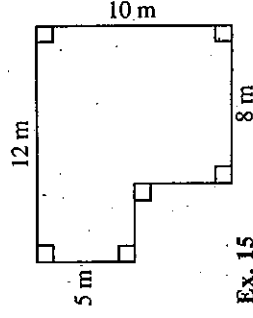
$$\begin{aligned} 4x + 3x &= 300 \\ 12x + 3 &= 300 \\ x + 0.25 &= 25 \\ x &= 25 \end{aligned}$$

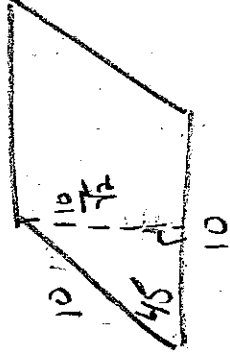
 13. The area of a rectangle is 300 cm^2 . Find the length and width if

 the ratio of length to width is 4 : 3. length = 20, width = 15

 14. Find the area of a rhombus with diagonals 12 and 16. 96

15. How much will it cost to blacktop the driveway shown if

 blacktopping costs \$10 per square meter? 1000

 16. Find the area of a rhombus with a 45° angle and sides of 10 ft.

 $50\sqrt{2}$


$$10 \cdot \frac{10}{\sqrt{2}} = \frac{100}{\sqrt{2}} = 50\sqrt{2}$$