

Name: _____ Period: _____

Date: _____ Row: _____

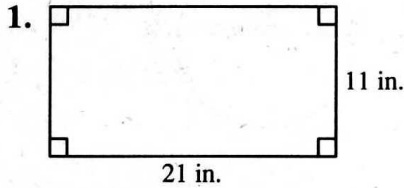
Assignment #: _____

****YOU MUST SHOW ALL WORK ON A SEPARATE SHEET OF PAPER****

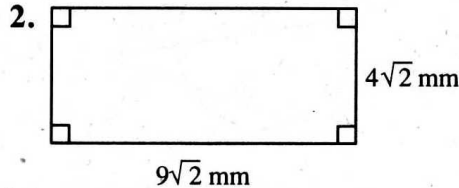
Areas of Rectangles, Parallelograms, Triangles, and Rhombuses

For use after Section 11-2

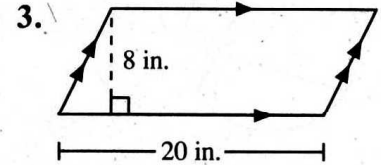
Find the area of each figure.



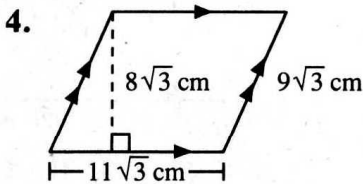
$A = \underline{\hspace{2cm}}$



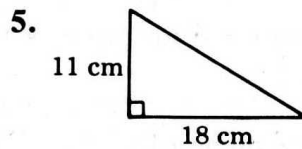
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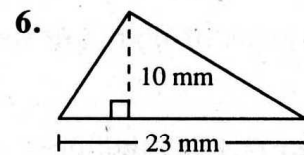
$A = \underline{\hspace{2cm}}$



$A = \underline{\hspace{2cm}}$



$A = \underline{\hspace{2cm}}$



$A = \underline{\hspace{2cm}}$

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

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

9. Find the area of an isosceles triangle with base 8 and perimeter 20. _____

10. Find the area of an equilateral triangle with perimeter 24. _____

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

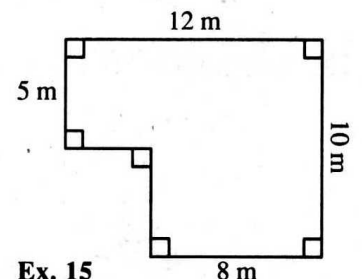
12. If the base of a parallelogram is $x + 5$, and the height is $x - 5$, express the area in terms of x . _____

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 = _____, width = _____

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

15. How much will it cost to blacktop the driveway shown if blacktopping costs \$10 per square meter? _____

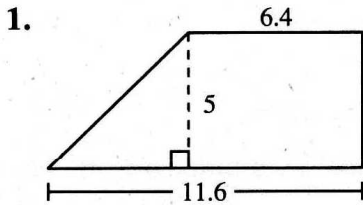
16. Find the area of a rhombus with a 45° angle and sides of 10 ft. _____



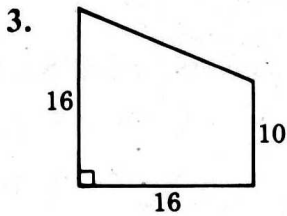
Areas of Trapezoids

For use after Section 11-3

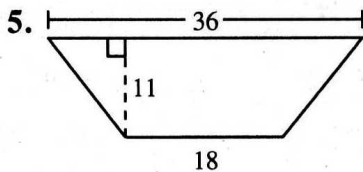
Find the area of each trapezoid.



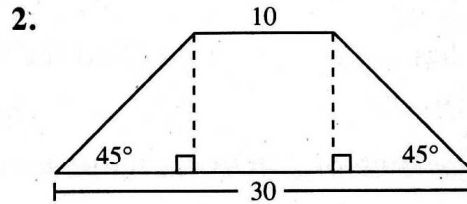
$A = \underline{\hspace{2cm}}$



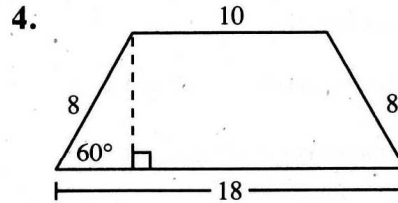
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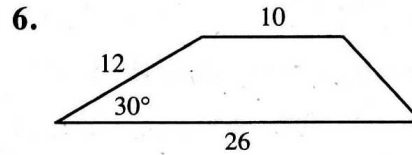
$A = \underline{\hspace{2cm}}$



$A = \underline{\hspace{2cm}}$



$A = \underline{\hspace{2cm}}$

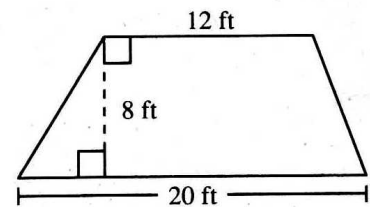


$A = \underline{\hspace{2cm}}$

7. A trapezoid has area 112 and median 16. What is its height? _____
8. A trapezoid has area 72 and height 9. How long is its median? _____
9. An isosceles trapezoid has base angles of 45° and bases of lengths 12 and 32. Find its area. _____
10. Find the height and perimeter of an isosceles trapezoid with bases 36 and 60 and area 768. $h = \underline{\hspace{2cm}}$, $p = \underline{\hspace{2cm}}$
11. Find the area and the length of the median of an isosceles trapezoid with legs 10 and bases 14 and 26. $A = \underline{\hspace{2cm}}$, length of median = _____
12. Find the height of a trapezoid with bases 9 and 6 and area 120. _____

13. The area of a trapezoid is 144 km^2 . The shorter base is 15 km and the height is 6 km. Find the longer base. _____

14. Find the area of the flower garden shown. _____



Ex. 14