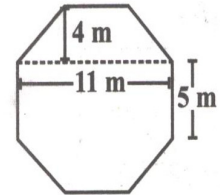


# 8<sup>th</sup> – MENSURATION - I



1. A floor which 18 m long and 12m broad are to be paved with rectangular tiles with sides  $2\text{m} \times 1\text{m}$ . Find the total number of tiles required.
2. The area of a trapezium is 12 sq m. If its height be 3m, find the sum of its parallel sides.
3. The area of a triangular plot of a garden is 2,670.5 sq.m. Find its height of its base is 98m
4. Mrs. Kaushik has a square plot with the side 25m. She wants to construct a house in the middle of the plot of dimension 15m X 20m. A garden is developed around the house. Find the total cost of developed around the house at the rate of Rs 55 per  $\text{m}^2$ .
5. The shape of a garden is rectangular in the middle and semi circular at the ends. Find the area and the perimeter of this garden when length of rectangle is 20m and breadth is 7m.
6. Find area and perimeter of a square of side 14cm when on one side a semicircle has been attached
7. The length of one diagonal of a quadrilateral is 40cm, and perpendicular drawn to it from the opposite vertices are 12 cm and 9cm. Find the area of the quadrilateral.
8. Find the area of a regular octagon as shown in the figure



9. The carpet for a room of dimensions  $7.5\text{m} \times 6\text{m}$ , costs 6750 Rs and it was made from a roll 80 cm wide. Find the cost of carpet per meter
10. The area of a quadrilateral ABCD is  $325\text{cm}^2$ . Find the length of the perpendicular drawn from D on AC if  $AC = 25\text{cm}$  and the length of the perpendicular from B on AC is 14cm.
11. The area of a rhombus is  $560\text{cm}^2$ . If one its diagonal is 28 cm, find the length of the other diagonal.
12. Find the area of a rhombus having each side equal to 13cm and one of its diagonals 10cm.
13. A piece of wire is in the form of a rectangle whose length is 52 cm and breadth is 36 cm. It is cut at a point and bent in the form of a circle. Find the radius of the circle.
14. The area of a trapezium is  $34\text{sq.cm}$  and its height is 4 cm. If the length of one of the parallel side is 10 cm. Find the length of the other parallel side.
15. Find the area of a trapezium whose parallel sides are 38 cm and 22 cm, and the distance between them is 15 cm.
16. Find the area of following figures

