

VIII - Mathematics Assignment - No-01 - Mensuration Pg-1

- Q1. The area of a rectangular plot is  $27000 \text{ m}^2$  and the ratio of its sides are 6:5. Find the cost of fencing all around at the rate of Rs 750 per km.
- Q2. The length of a room is double its width. If the width is 65 decimetres, find its area.
- Q3. The perimeters of two squares are 748 cm and 336 cm. Find the perimeter of a square whose area is equal to the sum of the areas of the two squares.
- Q4. The diagonals of a rhombus are 8 cm and 6 cm. Find its area (in length of the side).
- Q5. In a triangle ABC, side BC = 60 cm, CA = 56 cm, AB = 52 cm. Find the area of  $\triangle ABC$  if the altitude from A on BC is 30 cm. Find the length of the altitude corresponding to AC and AB, both.

Contd...-2

- Q6. In a trapezium ABCD,  $AB \parallel CD$  and  $AB = 66\text{m}$ ,  $CD = 40\text{m}$ ,  $AD = 28\text{m}$  and  $BC = 30\text{m}$ . Find the area of the trapezium.
- Q7. Find the area of a quadrilateral ABCD, whose diagonal  $AC = 15\text{cm}$  and the off sets on AC are  $3.5\text{cm}$  and  $8.5\text{cm}$ .
- Q8. The area of parallelogram whose base is  $42\text{cm}$  is equal to the area of a triangle whose base is  $63\text{cm}$  and the corresponding height is  $36\text{cm}$ . Find the height of the parallelogram.
- Q9. The area of a rhombus is  $96\text{ Sq.m.}$  If one of its diagonals is  $16\text{m}$ . Find the length of the other diagonal.
- Q10. The area of a trapezium is  $440\text{ Sq.m.}$  The two parallel sides are  $30\text{m}$  and  $14\text{m}$ . Find the distance between two parallel sides.

Q1. Rs 495	Q5. $900\text{ cm}^2$ on AC = $32.14\text{cm}$	Q7. $90\text{cm}^2$ Q8. $27\text{cm}$
Q2. $8450\text{ sq.dm.}$	Q9. $12\text{m}$	Q10. $20\text{m}$
Q3. $820\text{ cm}$	Q6. $1369.84\text{ m}^2$	
Q4. $24\text{cm}^2$ ; $5\text{cm}$ .		