

IX- Mathematics Assignment No-03-Heron's Formula-Area

- (Q1) The area of a rectangular field is 3584 m^2 and its length is 64 m. A boy runs round the field at the rate of 8 km/hr. How long will he take to go 5 times round it.
- (Q2) Find the length of altitude of an equilateral \triangle of side 36 cm each.
- (Q3) The base of a parallelogram is twice its height. If the area is 512 cm^2 , Find the base and the height.
- (Q4) The area of a trapezium is 1080 cm^2 if the lengths of its parallel sides are 55.6 cm and 34.4 cm. Find the distance between the parallel sides.

Cont Pg-2

Pg-2

(Q5) The area of a trapezium is 180 cm^2 and its height is 9 cm. If one of the parallel side is 6 cm long than the other. Find the two parallel sides.

(Q6) The cost of carpeting a room 15 m long with a carpet 75 cm wide at Rs 8 per metre is Rs 1920. Find the width of the room.

(Q7) The area of trapezium is 352 cm^2 . The distance between parallel sides is 16 cm. If one of the parallel side is 25 cm. Find the other.

Cont Pg-3

Pg-3

- (Q8) The length and width of a rectangular field are in the ratio 3:2. If the area of the field is 3456 m^2 , find the cost of fencing the field at Rs 3.50 per metre.
- (Q9) The cost of cultivating a triangular field ABC at Rs 30 a hectare is Rs 132. The measure of the side AC is 1760 metres. Find the measure of the perpendicular drawn from B to AC.
- (Q10) From a point in the interior of an equilateral \triangle , perpendiculars are drawn to the three sides of 8cm, 10cm, 11cm. respectively. Find the area of triangle.

ANSWERS.

(Q1) 9 min	(Q5) 17 cm 23 cm	(Q9) 50 h
(Q2) $18\sqrt{3}$ cm	(Q6) 12 m	(Q10) 485.6 cm^2
(Q3) 32 cm, 16 cm	(Q7) 19 cm	
(Q4) 24 cm	(Q8) Rs 840	