

M.M.30

Ch. Heron's Formula class IX

Time 1 hour

Section A 1 mark each

1. Heron was born in _____ in _____.
2. Heron formula is used to find area of triangle when _____.
3. Find the area of a triangle, two sides of which are 8 cm and 11 cm and the perimeter is 32 cm.

Section B 2 marks each

4. The sides of a triangular plot are in the ratio of 3 : 5 : 7 and its perimeter is 900 m. Find its area.
5. An isosceles triangle has perimeter 44 cm and each of the equal sides is 14cm. Find the area of the triangle.
6. The perimeter of a rhombus is 240cm and one of its diagonals is 80cm. Find its area using Heron's formula.

Section C 3 marks each

7. Find area of equilateral triangle of side $4a$ using Heron's formula. Using this formula find area of an equilateral triangle whose perimeter is 540cm.
8. The sides of a quadrilateral are 5cm, 12cm, 15cm and 20cm. The angle between first two sides is 90° Find the area of quadrilateral.
9. One side of a right triangle is 8 cm and the difference between other two sides is 4 cm. Find its area by Heron's formula.

Section D 6 marks each

10. A field is in the shape of a trapezium whose parallel sides are 35 m and 15 m. The non-parallel sides are 16 m and 18 m. Find the area of the field.
- 11 The sides of a triangular field are 600m, 640m and 700m.
(a) Find the cost of fencing at the rate of Rs. 50 per metre leaving doors of 2m on each side
(b) Find cost of levelling the field at Rs. 50 per square metre .

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