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MM 25

Heron's Formula

Time 45 Minutes

Section A 1 Mark Each

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- The difference of semi-perimeter and the sides of $\triangle ABC$ are 8, 7 and 5cm respectively. Its Semi-perimeter's is:
(A)10cm (B)5cm (C)15cm (D)20cm.
- If the semi-perimeter of an equilateral triangle is $15\sqrt{3}$ cm, then area of triangle is:
(A) $75\sqrt{3}$ cm² (B) $150\sqrt{3}$ cm² (C) $\frac{225\sqrt{3}}{2}$ cm² (D) $\frac{225}{3}\sqrt{3}$ cm²
- If the base of a parallelogram having 200m² as area is 40m, then its height is
(A)5m (B)10m (C)20cm (D)2.5m
- The diagonals of a rhombus are 40cm and 35cm, its area is
(A)700cm² (B)1400cm² (C)350cm² (D)400cm²
- The area of one triangular part of a rhombus ABCD is 28.5cm². The area of rhombus ABCD is
(A)57cm² (B)114cm² (C)28.5cm² (D)14.25cm²

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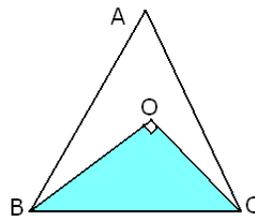
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**MM 25****Heron's Formula****Time 45 Minutes****Section B 2 Marks Each**

6. An isosceles triangle has perimeter 30cm and each of the equal sides is 12cm. Find the area of the triangle.
7. Find area of unshaded portion given $OB = 3\text{cm}$, $OC = 4\text{cm}$, $AB = 6\text{cm}$ and $AC = 8\text{cm}$

**Section C 3 Marks Each**

8. A triangular park PQR has sides 120m, 80m, and 50m. A gardener, vikas has to put a fence all around it and also plant plants inside. How much area dose he need to plant? Find the cost of fencing it with barbed wire at the rate of Rs.30per meter leaving a space 2m wide for a gate on one side.
9. The triangular side walls of a fly-over have been used for advertisement. The sides of the walls are 112m, 12m and 110m. The advertisements yield an earning of Rs.4000per m^2 per year. A person hired one of its walls for months. How much rent did he pay?
10. A park, in the shape of a quadrilateral ABCD has $C=90^\circ$, $AB=10\text{m}$, $BC=12\text{m}$, $CD=5\text{m}$ and $AD=12\text{m}$. How much area does it occupy?
11. OABC is a rhombus, whose three vertices A,B,C lie on a circle with center o. If the radius of the circle is 10cm. Find the area of the rhombus.

Section D 4 Marks Each

12. The parallel sides of a trapezium are 25cm and 11cm, while its non parallel sides are 16cm and 13cm. Find the area of the trapezium.