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HERON'S FOR	MULA			CM091001
Multiple Choice Questions :				1 mark each
1. The sides of a triangular flower bed are 5 m, 8 m and 11 m. The area of the flower bed is :				
(a) $4\sqrt{21} m^2$	(b) $21\sqrt{4} m^2$	(c) $\sqrt{330} m^2$	(d) $\sqrt{300} \ m^2$	
2. If the perimeter of an isosceles triangle of Base 12 cm is 30 cm, then its area is :				
(a) 18 <i>cm</i> ²	(b) $18\sqrt{5} \ cm^2$	(c) $36\sqrt{5} \ cm^2$	(d) $5\sqrt{18} \ cm^2$	
3. In the figure, ABCD is a rectangle and DEC is an equilateral triangle. Area of Δ DEC is :				
(a) $36\sqrt{3} \ cm^2$	(b) 48 <i>cm</i> ²	(c) $12\sqrt{3} cm^2$	(d) $9\sqrt{3} \ cm^2$	¥
4. If the altitude of an e	equilateral triangle is $\sqrt{12}$ cm, the	en its area is equal to	:	A 6 cm B
(a) $2\sqrt{3} \ cm^2$	(b) $3\sqrt{3} \ cm^2$	(c) $4\sqrt{3} \ cm^2$	(d) $5\sqrt{3} \ cm^2$	
5. Each equal side of an isosceles triangle is 13 cm and its base is 24 cm. Area of the triangle is :				
(a) $50\sqrt{3} \ cm^2$	(b) $40\sqrt{3} \ cm^2$	(c) $25\sqrt{3} cm^2$	(d) 60 cm ²	
Very Short Answer T	ype Questions :			2 marks each
6. The perimeter of a right triangle is 450 cm. If its sides are in the ratio 13:12:5, find the area of the triangle.				
7. Find the area of a regular hexagon of side a.				
8. Find the cost of levelling the ground in the form of a triangle having the sides 51 m, 37 m and 20 m at the rate of Rs 3/m ² .				
Short Answer Type Questions :				3 marks each
9. In the figure, find th	ne area of the shaded region.			120 m 122 m
10. In the figure, find the area of the trapezium PQRS with height PQ.				
				12 m R $7 m$ R Q
11. The lengths of the two sides of a right triangle containing the right angle differ by 2 cm. If the area of the triangle is				
24 cm ² , find the pe	erimeter of the triangle.			
Long Answer Type Q	Questions :			5 marks each
12. In the figure, the dimensions of the rectangle ABCD are 51 cm × 25 cm. A trapezium PQCD with its parallel sides QC and PD in the ratio 9:8 is cut off from the rectangle.				A P D 25 cm
If the area of the trapezium PQCD is $\frac{5}{6}th$ part of the rectangle, find QC and PD.				
13. In the figure, ABC has sides AB=7.5 cm, AC=6.5 cm and BC = 7 cm. On base BC a				\leftarrow 51 cm \rightarrow
parallelogram DBCE of same area as that of ABC is constructed.				
Find the height DF	of the parallelogram.		>	B F 7 cm F 7 cm F

