

II								
11	Mr Sharma makes a triangular garden table in the balcony of his house. He designs the garden table in the form of an isosceles triangle with perimeter 8m. The ratio of the equal side of the garden table to its base is 3 : 2. Image: Construction of the garden table to its base is 3 : 2. Based on the above information answer the following questions. Image: Construction of the garden table. 5. Find the sides of the garden table. 6. Find the semi-perimeter of the garden table. 7. If Mr. Sharma wants to polish the top of his garden table, find the area to be polished							
ΙΠ	Kite Festival is a popular festival in India and it takes place during Makar Sankranti in the month of January. Lakshmi and her friends decides to make kites for the kite festival, the outline of which is given. ABCD is a square with diagonal 44 cm. $\overline{III} = 0$							
	8. Find the area of yellow shade needed in making the kite.	1m						
	9. Find the area of red shade needed for the kite.							
	10. Find the area of green shade needed for the kite.							
1								

IV	The triangular side walls of a flyover have been used for advertisements. The sides of the walls are 13 m, 14 m and 15 m. The advertisements yield an earning of ₹ 2000 per m ² a year. Based on the above information answer the following questions.											
	11. Find the perimeter of the triangular side wall. 12. Does the sides 13m, 14m and 15m form the sides of a right triangle.											
	13.	Find the rent paid	e rent paid by the company for hiring one of the the side walls for 1 year.							2m		
	14. A company hired one of its walls for 6 months. How much rent did it pay?											
	While designing the GSM distribution of a city or a state, the locality is divided in the shape of hexagons. The hexagon shape of the cells helps the engineers locate the best position to place tower. The adequate placing of the tower is necessary so that the signal gets radiated evenly in directions. Hence, the hexagon geometric shape finds its application in communication engineering. A regular hexagon has a side 6 cm. The three diagonal divides the hexagon into six congruent equilateral triangles with side 6 cm. Based on the above information answer the following quest15.Find the perimeter of the hexagon.16.Find the area of one equilateral triangle.17.Find the area of the hexagon.									pe of lace the ly in all c uestions. 1m 1m 2m		
	Answers											
S	1	3500cm ² , 240cm	2	34cm	3	204 cm ²	4	1632cm	² , 186	58 cm ²		
Answers	5	3m, 3m, 2m	6	4m	7	$2\sqrt{2}$ cm ²	8	484 cm ²				
	9	242 cm ²	10	$(242+21\sqrt{39})$ cm ²	11	42m	12	No				
	13	₹168000	14	₹84000	15	36 cm	16	$9\sqrt{3}$ cm ²	17	$54\sqrt{3}$ cm ²		