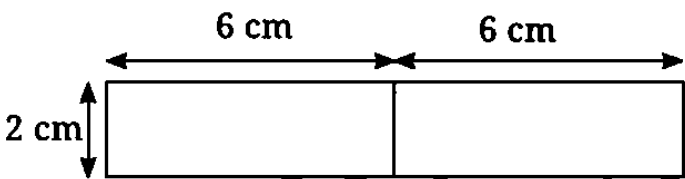
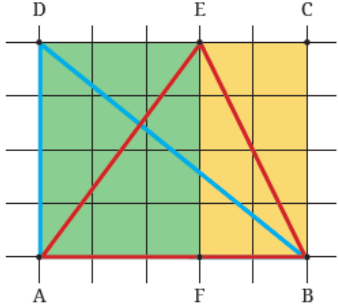
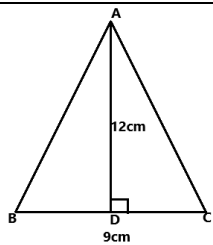
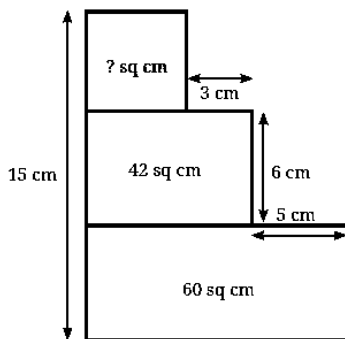
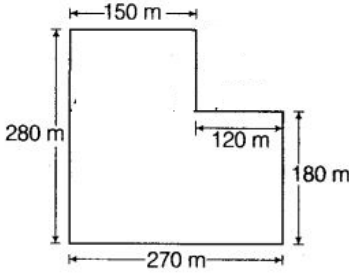
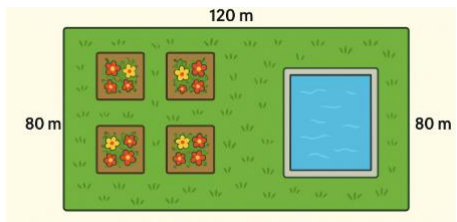


INDIAN SCHOOL AL WADI AL KABIR
Class VI, Mathematics
WORKSHEET-2 (2025-26)
PERIMETER AND AREA
SUB TOPIC: AREA

Multiple Choice Questions

Q.1.	If the perimeter of a square is 64 cm, then its area is:							
	A	265sq.cm	B	256 sq.cm	C	226sq.cm	D	324sq.cm
Q.2.	Determine the area of the entire portion depicted in the figure: 							
	A	24sq.cm	B	14 sq.cm	C	28 sq.cm	D	16 sq.cm
Q.3.	The following are different possible dimensions of a plot with an area of 36 sq.m. Which of these dimensions will result in the maximum boundary length?							
	A	9m by 4m	B	18m by 2m	C	12m by 3m	D	6m by 6m
Q.4.	The area of a rectangular lawn is 600 sq. m. If the width of the lawn is 20 m, what is its length?							
	A	40m	B	25m	C	30m	D	45m
Q.5.	What is the possible dimension of a square plot of area 324 sq.m							
	A	16m × 12m	B	81m × 4m	C	36m × 9m	D	18m × 18m
Q.6.	The area of a triangle whose base is 7 cm and height 16 cm is:							
	A	56 sq.cm	B	65 sq.cm	C	23 sq.cm	D	46sq.cm
Q.7.	Determine the area of the portion to be painted on a piece of paper measuring 32 cm in length and 20 cm in breadth.							
	A	72sq.cm	B	52 sq.cm	C	640sq.cm	D	604 sq.cm
Q.8.	Area of a square field of side 78m is:							
	A	6840sq.cm	B	6804sq.cm	C	6084sq.cm	D	6084sq.cm

Q.9	Compare the areas of the two triangles and determine which option is correct.							
								
	A	Area of $\Delta ABD > \Delta ABE$	B	Area of $\Delta ABD = \Delta ABE$	C	Area of $\Delta ABD < \Delta ABE$	D	Area of $\Delta ABD =$ <i>Half of area of ΔABE</i>
Q.10.	Find the area of the triangle.							
								
	A	54 sq.m	B	108 sq.m	C	50 sq.m	D	45 sq.m
	LONG ANSWER QUESTIONS:							
Q.11	If the perimeter of a rectangular wooden frame is 250 cm and its length is 75 cm, find its width and calculate its area.							
Q.12	a) What is the total area of the entire shape? b) What is the perimeter of the middle rectangle? c) How much wider is the bottom rectangle than the top rectangle?							
Q.13	If the area of a rectangular plot is 432 sq. m and each granite sheet used in the plot measures 2 m × 2 m, find the number of granite sheets required to cover the entire plot.							
Q.14	A rectangular field measures 150 m by 90 m. If each apple tree requires 30 sq m, find the maximum number of trees that can be planted in the field.							

Q.15	<p>By splitting the following figures into rectangles, find their areas</p> 
Q.16	<p>A rectangular field 300 m long and 200 m wide is to be covered with fertilizer at the rate of ₹15 per 100 sq. m. Find the total cost.</p>
Q.17	<p>A wall is in the shape of a rectangle with a length of 7 m and a breadth of 4 m. A smart board in the shape of a rectangle, having a length of 80 cm and a breadth of 70 cm, is fitted on the wall.</p> <p>(i) Find the area of the smart board.</p> <p>(ii) Find the area of the remaining portion of the wall not covered by the smart board.</p>
Q.18	<p>A rectangular hall is 50 m long and 35 m wide. Four square pillars, each of side 3 m, are built at the corners. Find the area of the floor not covered by the pillars.</p>
Q.19	<p>A rectangular wall is 8 m long and 6 m high. A square window of side 2 m is made in the wall. Find the area of the wall that is not occupied by the window.</p>
Q.20.	<p><u>CASE STUDY</u></p> <p>A recreational rectangular garden is being developed with a length of 120 meters and a breadth of 80 meters. As part of the landscaping plan:</p> <p>Four square flower beds, each with a side length of 7 meters, are arranged within the garden.</p> <p>A rectangular swimming pool, measuring 12 meters in length and 10 meters in breadth, is constructed on one side of the garden. The remaining area of the garden will be used for planting green bush grass to enhance the greenery.</p>  <p>i) Find the area of the rectangular garden?</p> <p>ii) Find the area of 4 square flower beds?</p> <p>iii) Find the area used for swimming pool?</p> <p>iv) Determine the area available for planting green bush grass.</p>

ANSWERS

Q1.	B	Q2.	A	Q3.	B
Q4.	C	Q5.	D	Q6.	A
Q7.	C	Q8.	C	Q9.	B
Q10.	A	Q11.	50cm, 3750 sq.cm	Q12.	a)118 sq.cm b)26cm c)8cm difference
Q13.	108 sheets	Q14.	450 trees	Q15.	63600 sq.m
Q16.	9000	Q17.	(i) 300 sq.cm (ii) 2,74,400 sq.cm	Q18.	1714 sq.m
Q19.	44sq.m	Q20.	i)9600 sq.m ii)196 sq.m iii)120 sq.m iv)9284 sq.m		