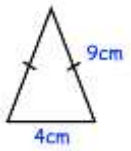
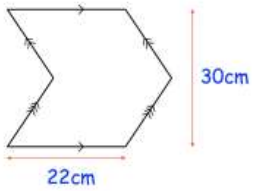
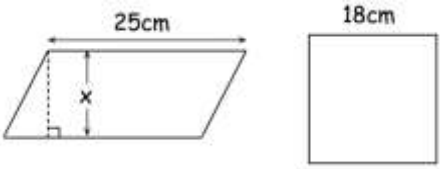
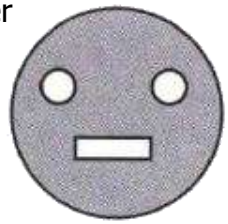
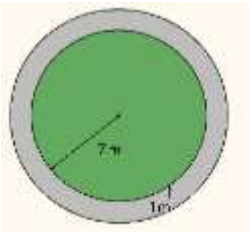
INDIAN SCHOOL AL WADI AL KABIR
Class VII, MATHEMATICS
PERIMETER AND AREA
WORKSHEET 1 (2025-26)

Multiple Choice Questions

Q.1	What is the area of a parallelogram with a base of 14 cm and a height of 7 cm?						
	A	21 cm²	B	98 cm²	C	49 cm²	D	14 cm²
Q.2	If the equal sides of a right-angled triangle are 10 cm each, then its area is ____						
	A	100 cm²	B	20 cm²	C	50 cm²	D	200 cm²
Q.3	The circumference of a circular field is 308 m. Find its radius. (Take $\pi=\frac{22}{7}$)						
	A	94 m	B	59 m	C	44 m	D	49 m
Q.4	Perimeter of the given triangle is ____ cm. 						
	A	9	B	22	C	36	D	18
Q.5	Find the area of a parallelogram with base 60 cm and height 2 m.						
	A	12000 cm^2	B	620 cm^2	C	12000 m^2	D	120 cm^2
Q.6	The perimeter of an equilateral triangle is 30 cm. What is the length of each side?						
	A	8 cm	B	15 cm	C	12 cm	D	10 cm
Q.7	The area of a parallelogram is 54 cm². If its height is 9 cm, find the length of its base.						
	A	6 cm	B	486 cm	C	243 cm	D	8 cm
Q.8	If the area of triangle is 36 cm^2 and the height is 3 cm, the base of the triangle is ___						
	A	12 cm	B	24 cm	C	108 cm	D	39 cm
Q.9	A table top is semicircular in shape with diameter 28 m. Find its area. (Take $\pi=\frac{22}{7}$)						
	A	300 m²	B	314 m²	C	320 m²	D	308 m²
Q.10	Length of tape required to cover the edges of a semicircular disc of radius 10 cm is:						
	A	62.8 cm	B	31.4 cm	C	51.4 cm	D	15.7 cm

Long Answer Questions	
Q.11	The logo below is created by joining two congruent parallelograms. Find the area of the logo. 
Q.12	A semicircular window has a radius of 30 cm. What is the area of the window?
Q.13	A circular field has a radius of 28 m. A path of width 7 m runs around the field. Find the area of the path.
Q.14	Shown below are a parallelogram and a square. The area of the square and parallelogram are equal. Find the perpendicular height (x) of the parallelogram. 
Q.15	In the figure, if radius of the bigger circle is 14 cm, radius of each smaller circle is 3.5 cm and dimensions of the rectangle are 3 cm × 2 cm, find the shaded area. 
Q.16	A triangular park has a base of 50 m and a height of 30 m. Find its area. If the park is to be tiled at a cost of ₹50 per square metre, find the total cost of tiling the park.
Q.17	If the circumference of a circular sheet is 132 cm. Find its radius and area. (Take $\pi=\frac{22}{7}$)
Q.18	**<u>Case Study:</u>** A school has a circular playground of radius 7 m. The management has decided to construct a 1 m wide path all around the playground and cement it. Students are asked to calculate the measurements for this project. Answer the following: (Take $\pi=\frac{22}{7}$) (i) Find the area of the playground. (ii) Find the circumference of the playground. (iii) Find the area of the playground along with the path. (iv) If the cost of cementing the path is ₹1000 per m², find the total cost.  

ANSWER KEY

Q1	B	Q2	C	Q3	D	Q4	B
Q5	A	Q6	D	Q7	A	Q8	B
Q9	D	Q10	C	Q11	660 cm^2	Q12	1414.29 cm^2
Q13	1386 m^2	Q14	12.96 cm	Q15	533 cm^2	Q16	Area = 750 m^2 Cost = ₹37,500
Q17	R = 21cm A = 1386 cm^2	Q18	(i) 154 m^2 (ii) 44 m (iii) 201.14 m^2 (iv) ₹47140				