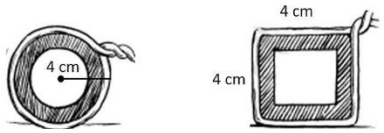
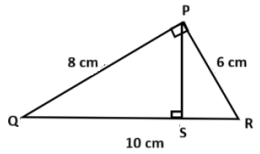
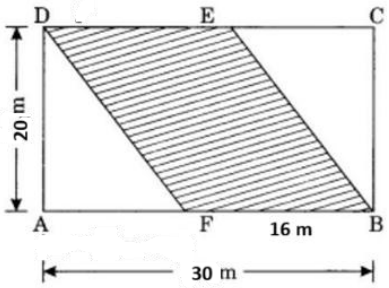
INDIAN SCHOOL AL WADI AL KABIR
Class VII, Mathematics
WORKSHEET (2025-26)
PERIMETER AND AREA (PART -2)

Multiple Choice Questions

Q.1.	The area of a parallelogram is 672 cm². If the height is 28 cm, then its base is:							
	A	22cm	B	24 cm	C	14 cm	D	72 cm
Q.2.	The area of a circular track with circumference 220 m is:							
	A	3550 m^2	B	3600 m^2	C	3750 m^2	D	3850 m^2
Q.3.	Laya wants to design a small name plate in the shape of a parallelogram. If the base is 8.5 cm and the height is 1.2 cm, the area of the name plate is:							
	A	102 cm²	B	10.2 cm².	C	1.02 cm²	D	12.02 cm²
Q.4.	A triangular piece of land has a base of 32 m and a height of 24 m.The area of the land is:							
	A	284 m^2	B	884 m^2	C	384 m^2	D	784 m^2
Q.5.	A wire is in the form of a semi – circle of 7 cm radius. The length of the wire will be:							
	A	36 cm	B	39 cm	C	5 cm	D	30 cm
Q.6.	The area of a right-angled triangle is 75cm^2. If one of the sides containing the right angles is 6cm. Find the other side.							
	A	15 cm	B	25 cm	C	37 cm	D	54 cm
Q.7.	A circular pizza has a radius of 14 cm. It is divided into two equal parts. Find the perimeter of one part. (Take $\pi = \frac{22}{7}$)							
	A	52 cm	B	58 cm	C	72 cm	D	80 cm
Q.8.	The base of a parallelogram whose height is 14 cm and area is 175 cm^2 is :							
	A	12.7 cm	B	11.7 cm	C	13.4cm	D	12.5cm
Q.9	The diameter of a circular garden of circumference 110 m is: (Take $\pi = \frac{22}{7}$)							
	A	35 m	B	17.5 m	C	70 m	D	30 m
Q.10.	A circular pond has a diameter of 10 m. Find the length of a rope needed to go once around it. (Take $\pi = \frac{22}{7}$)							
	A	3.143 cm	B	33.43 cm	C	30.43 cm	D	31.43 cm

	LONG ANSWER QUESTIONS:
Q.11	A flag is made in the shape of a parallelogram with a base of 20 cm and a height of 15 cm. Find the area of cloth used for the flag.
Q.12	A school has a rectangular notice board of base 24 cm and height 20 cm. Another notice board is in the shape of a parallelogram with base 21.5 cm and the same area as the rectangular notice board. Find the height of the parallelogram board.
Q.13	A wheel of a bullock cart has a radius of 49 cm. How far will it travel in 75 revolutions? (Take $\pi = \frac{22}{7}$)
Q.14	A rectangular carpet is 60 cm by 40 cm. A triangular section with base 24 cm and height 16 cm is cut for design purposes. Find the remaining area.
Q.15	Pragya wrapped a cord around a circular pipe of radius 4 cm and cut off the length required of the cord. Then she wrapped the same cord around a square box of side 4 cm (also shown). Find the length of the cord left after wrapping the square box. (Take $\pi = 3.14$) 
Q.16	$\triangle$PQR is right-angled at P. Line segment PS is perpendicular to QR. If PQ=8cm, PR=6 cm, and QR=10 cm. Find the area of $\triangle$PQR and the length of PS. 
Q.17	A rectangular park is 45 m long and 38 m wide. A circular tank of radius 7 m is built in the field. Calculate i. The area of the park. ii. The area of the tank. (Take $\pi = \frac{22}{7}$) iii. The area of the park excluding the area of the tank.
Q.18	A wire of length 314 m is used for fencing a playground. i. Find the radius and area if fenced as a circle. ii. Find the side and area if fenced as a square. iii. Which fencing provides more area for playing? (Take $\pi = 3.14$) **(CBQ)**
Q.19	A semicircular tablecloth has a diameter of 140cm. Find: i) The length of lace needed along the curved edge and straight edge. ii) The area of the tablecloth. (Take $\pi = \frac{22}{7}$) **(CBQ)** 

Q.20.	**Case study** A school plans to create a parallelogram-shaped flower bed in the middle of a rectangular courtyard. The courtyard measures 30 m × 20 m. The flower bed has a base of 16m and height 20m.Answer the following questions based on the given information:   1. Find the area of the flower bed (shaded region). 2. Find the area of the remaining triangular patches around the flower bed. 3. Find the ratio of the area of the flower bed to the remaining area of the courtyard.

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ANSWERS							
1.	B	**2.**	D	**3.**	B	**4.**	C
5.	A	**6.**	B	**7.**	C	**8.**	D
9.	A	**10.**	D	**11.**	300 cm^2	**12.**	22.32 cm
13.	231 m	**14.**	2208 cm^2	**15.**	9.12 cm	**16.**	area of △PQR=24 cm^2 PS= 4.8 cm
17.	i.1710m^2 ii.154m^2 iii.1556m^2	**18.**	i. R=50m Area=7850m^2 ii. Side=78.5m Area=6162.25m^2 iii. Circle provides more area	**19.**	Length of lace = 360 cm Area of table cloth=7700cm^2	**20.**	1.Area of flower bed = 192 m^2 2.Area of remaining triangular patches=408 m^2 3.Ratio of flower bed to remaining area = 8:17