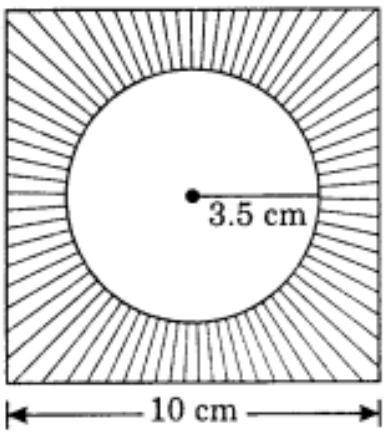
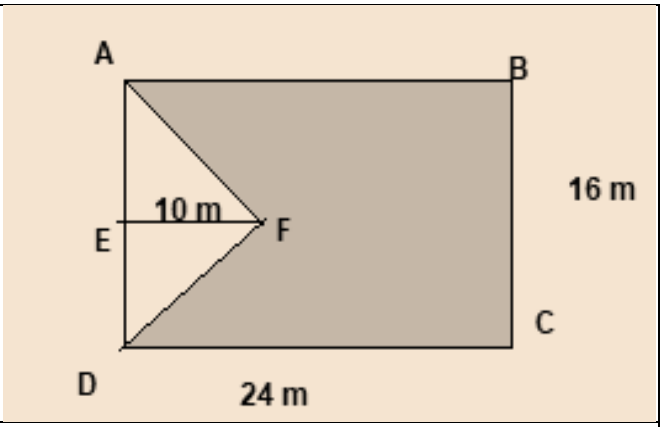
INDIAN SCHOOL AL WADI AL KABIR

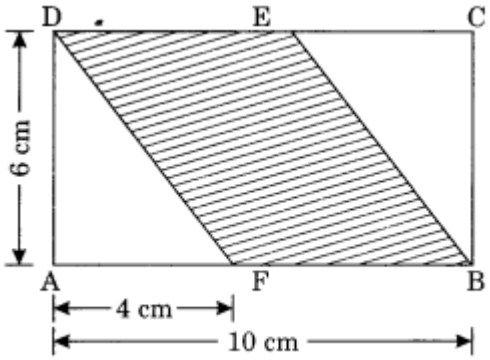
Class VII, Mathematics (2022-23)

Worksheet DTQ – Perimeter & Area

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)	
Q1.	The area of parallelogram is 24 cm^2.If base is 5cm find the altitude of the parallelogram.
Q2.	The area of a triangle is 50 cm^2.If the altitude is 8cm.what is the length of its base.
Q3.	The circumference of a circle is 66m. find its radius (use $\pi = \frac{22}{7}$)
Q4.	Find the perimeter of a semicircle with diameter 42cm.
Q5.	The base and the height of a field in the form of parallelogram are 12m and 5m respectively. Find the cost of ploughing the field at the rate of ₹6 per sq.m
Q6.	A rectangular piece of canvas measures 25cm by 16 cm.A triangular piece with base 14 cm and height 10 cm is cut off from the canvas. Find the area of the remaining piece.
Q7.	The area o a right-angled triangle is 75cm^2. If one of the sides containing the right angles 1s 5cm.Find the other side.
SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)	
Q8.	In the given figure, find the area of the shaded portion. 
Q9.	From a circular sheet of radius 4 cm, a circle of radius 3 cm is removed. Find the area of the remaining sheet. (Taken = 3.14)
Q10.	A rectangle park is 45 m long and 30 m wide. A path 2.5 m wide is constructed outside the park. Find the area of the path.
Q11.	Two cross roads, each of width 10 m, cut at right angles through the centre of a rectangular park of length 600 m and breadth 250 m and parallel to its sides. Find the area of the roads. Also find the cost of leveling the roads at the rate of ₹12 per sq.m.

Q12.	ABCD is a rectangle with dimensions 24m X 16m. AFE is a triangle such that $EF \perp AD$ and EF = 10m. Calculate the area of the shaded portion.	

LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)

Q.13	A community park is in the form of a square of side 80m. A 4m wide path runs inside it along its sides. Find the cost repairing the path at the rate of ₹10 per sq.m. Also find the cost of planting grass the remaining region at the rate of ₹5 per sq.m.
Q14.	A track is in the form of two circles with same centre. The radius of the larger circle is 14m and the radius of the smaller circle is 7m. find the area of track. (use $\pi = \frac{22}{7}$)
Q15.	Find the area of a parallelogram-shaped shaded region. Also, find the area of each triangle. What is the ratio of the area of shaded portion to the remaining area of the rectangle? 

ANSWERS

Q1.	4.8 cm	**Q2.**	12.5 cm	**Q3.**	10.5 cm
Q4.	108 cm	**Q5.**	₹360	**Q6.**	330cm^2
Q7.	15 cm	**Q8.**	61.5cm^2	**Q9.**	21.98cm^2
Q10.	400 m^2	**Q11.**	8400 m^2, ₹10800	**Q12.**	304 cm^2
Q13.	₹12160, ₹25920	**Q14.**	462m^2	**Q15.**	60 cm^2,12cm^2, 3:2