CLASS – VII MATHEMATICS – CHAPTER 11 PERIMETER AND AREA

Nar	ne:							Date:	
01.	A door frame of dimensions $4 \text{ m} \times 5 \text{ m}$ is fixed on the wall of dimension $11 \text{ m} \times 11 \text{ m}$. Find the total								
	labour charge	es for pain	for painting the wall if the labour of			charges for painting		g 1m² of the wall is Rs 2.50 .	
	(a). Rs. 200		(b). Rs. 252.50		(c). Rs. 30	00	(d). Rs. 3	50	
02.	What is the c	Vhat is the circumference of a circle of diameter 10cm ?							
	(a). 30 cm		(b). 35 cm		(c). 31.4	cm	(d). none of these	
03.	Find the brea	nd the breadth of a rectangular plot of land, if its area is 440 m² and the length is 22m.						n is 22m.	
	(a). 5 m		(b). 10 m		(c). 15 m		(d). 20 m	A	
04.	Find the area	-ind the area of following triangle:							
	(a). 6 cm ²		(b). 5 cm ²		(c). 4 cm ²	2	(d). 3 cm ²	2	
05.	The length an	he length and breadth of a rectangular field is 10 cm and 6 cm respectively.							
	Find the perimeter of the field.								
	(a). 32 cm		(b). 28 cm		(c). 24 cn	n	(d). 20 cm	n	
06.	A door frame	door frame of dimensions 4m × 5m is fixed on the wall of dimension 11m × 11m .Find the total labou					m .Find the total labour		
	charges for painting the wall if the labour charges for painting 1m² of the wall is Rs 2.50 .							Rs 2.50.	
	(a). Rs. 200.5	0	(b). Rs. 252.50		(c). Rs. 30	00	(d). Rs. 35	50.50	
07 .	Find the area	of a circle	e of radius 15 cn	n.	. ,				
	(a). 599.5 cm	2	(b). 695 cm2		(c). 706.5	5 cm2	(d). none	of these	
08 .	A rectangle's	length is ((2x + 1) cm and	its width is	(2x – 1) c	m . If its a	area is 15 cm	² , find the value of x ?	
	(a). 2 cm	0	(b). 3 cm		(c). 4 cm		(d). 5 cm		
09.	The length an	d breadth	of a rectangula	r fie <mark>ld is 10</mark>	cm and 6	cm resp	ectively. Wh	at will be its area?	
	(a). 50 cm ²		(b). 60 cm ²		(c). 70 cn	n ² (d).	80 cm ²	1 12 m K	
10.	Find the perir	meter of t	he given figure.		. /	()		3 m	
	(a). 35 m		(b). 80 m		(c). 94 m	(d).	86 m	¹ 4m ^{8m} ^J	
11.	If the area of	f the area of a rectangular plot of land is 440 m² and the length is 22 m . Find						E3 m	
	its perimeter						4 m F		
	(a), 48 m		(b), 60 m		(c). 72 m	(d).	84 m	3 m	
12.	Write 3/4 in t	the form o	of percentage.		(-,	(A B	
	(a). 100%		(b). 75%		(c). 50%	(d).	25%		
13.	A rectangular	field has	dimensions 84	m by 37 m .	Find the o	cost of fe	encing its bou	undary at the cost of Rs	
	2.50/m What will be the cost of digging the entire field at the cost of Rs $15/m^2$								
	(a) Rs /0 620))	(h) Rs 66 620	's the chill		620	(d) Re /A	620	
	(u). 113 +0,020	,	(5). (5) .		(0). 113 50	,020	(u). N3 40	,020	

14.	If the area of the rectangle is 105 cm^2 . Its length is $(4x - 5) \text{ cm}$ and breadth is $(2x - 5) \text{ cm}$, find the perimeter?							
	' (a). 44 cm	(b). 55 cm	(c). 33 cm	(d). 66 cm				
15.	How many times a wheel	of radius 28 cm must ro	otate to go 352 m ?	()				
	(a). 100 Times	(b). 300 Times	(c). 200 Times	(d). none of these				
16.	A rectangle has a length of 6 cm and diagonal 10 cm , find the width of the rectangle?							
	(a). 8 cm	(b). 16 cm	(c). 9 cm	(d). 12 cm				
17.	A field has four square co	rners as shown in the fig	gure. Find the 🔒 🕇 🔲 🛚 🖿	к 8m [_]_				
	perimeter excluding the s	square corners.	E 8m	L m8				
	(a). 106 m	(b). 206 m	45m					
	(c). 300 m	(d). 405 m	F <mark>8m</mark> √ <mark>8m</mark>	8m 8m				
Q0 2	1. Fill in the blanks:		G	н				
•	(a). The is the c	listance around a given t	two-dimensional object.					
	(b). If we cut a square along one of its diagonals, two triangles are obtaine(d). Area of each triangle							
	obtai <mark>ned =</mark>							
	(c). Perim <mark>eter of a regu</mark>	lar polygon =	× Length of each side					
	(d).The f <mark>ormula to finc</mark>	l area of circle						
	(e). 1 m ² = cr	n ²						
	(f).Area <mark>of a squ</mark> are = _							
	(g). 50 cm ² = r	nm²						
	(h).If w <mark>e cut a p</mark> arallel	ogram along o <mark>ne of its</mark> c	liagonals, we obtain two t	riangles. These triangles are				
	equ <mark>al in are</mark> a beca	use						
	(i)is a quantit	ty expressing the <mark>two-di</mark>	mensional size of a define	ed part of a surface, typically				
	a reg <mark>ion bou</mark> nded k	by a closed curve.						
	(j). If we cut a parallelogram along one <mark>of its dia</mark> gonals, we obtain two triangles. These triangles a							
	equa <mark>l in area becau</mark>	ise						
	(k). One – fourth of the	perimeter of a square g	gives the					
	(l). $1 \text{ cm}^2 = _\m^2$							
	(m). Area of parallelog	ram =						
Q02	2. State true of false:							
	(a). All triangles equal	in area are congruent.						
	(b). The distance around a circular region is known as area of that circle.							
	(c). Any side of the parallelogram can be chosen as base of the parallelogram.							
	(d). The distance arour	nd a circular region is kn	own as area of that circle.					

(e). If we cut a rectangle along its one diagonal, we get two triangles. If we cut it along both of its diagonals, we get four triangles.

- Q03. A rectangular garden is 65 cm long and 50 cm wide. Two cross paths each 2 m wide are to be constructed parallel to the sides. If these paths pass through the centre of the garden, find the cost of constructing the paths at the rate Rs. 69 per m².
- Q04. The figure given below, shows two circles with the same centre. The radius of the larger circle is **10 cm** and the radius of the smaller circle is **4 cm**. Find:
 - (a). the area of the larger circle,
 - (b). the area of the smaller circle,
 - (c). the shaded area between the two circles. (Take p = 3.14)
- **Q05.** A wire is in the shape of a square of side **10 cm**. If the wire is rebent into a rectangle of length **12 cm**, find its breadth. Which encloses more area the square or the rectangle?
- **Q06.** A rectangular garden is **90 m** long and **75 m** broa(d). A path **5 m** wide is to be built out around it. Find the area of the path.
- **Q07.** Find the perimeter of the given shape.
- Q08. Anand took a wire of length 44 cm and bent it into the shape of a circle. Find the radius of that circle. Also, find its are(a). If the same wire is bent into the shape of a square, what will be the length of each of its sides? Which figure encloses more area the circle or the square?
- Q09. The two sides of the parallelogram ABCD are 6 cm and 4 cm. The height corresponding to the base CD is 3 cm, as shown in figure. Find the

(a). area of the parallelogram (b). the height corresponding to the base AD

- Q10. The length & breadth of a rectangle are 23 cm & 11 cm respectively. Find he area of the triangles formed by joining one of its diagonals.
- Q11. The area of a square and a rectangle are equal. If the side of the square is 40 cm and the breadth of the rectangle is 25 cm, find the length of the rectangle. Also, find the perimeter of the rectangle.
- Q12. From a circular card sheet of radius 14 cm, two circles of radius 3.5 cm and a rectangle of length 3 cm and breadth 1 cm are removed .Find the area of the remaining sheet.
- **Q13.** The side of a square is **4 cm.** Find the area of the triangles formed by joining all of its diagonals.
- **Q14.** The sides of the parallelogram ABCD are **16 cm** and **13 cm**. If AP & CQ are respectively perpendicular toBC and AB; find AP and CQ .The area of parallelogram is **1040 cm**².







G

14 cm

14 cm



- **Q15.** In the following figure, find the area of shaded portion:
- **Q16.** Find the area of the rectangle and of its congruent parts shown in the figure:
- Q17. A rectangular garden is 65cm long and 50 cm wide. Two cross paths each 2 m wide are to be constructed parallel to the sides. If these paths pass through the centre of the garden, find the cost of constructing the paths at the rate Rs 69 per m².

