IX Class

PRACTICE MATERIAL

I. One mark questions :

- 1. A garden is in the shape of a rectangle. Its length and breadth are 98 cm and 57 cm. Find its perimeter.
- 2. Find the area of equilateral triangle if side is 2 cm.
- The lengths of the perpendicular sides of a right angled triangle are 24cm and 70 cm.
 Find the length of its hypotenuse.
- 4. The area of an isosceles right angled triangle is 98sq.cms. Find its perpendicular sides.
- 5. Show that the diagonal of a square is $\sqrt{2}$ times to its side.
- 6. Area of the square is 98sq.cms. Find its diagonal.
- 7. The length and breadth of a rectangle are in the ratio 2: 1. If area is 50cms, find its length and breadth.
- 8. In a right angled triangle whose sides are 5cm and 12cm. Find the maximum area of a rectangle constructed in it.
- 9. The perimeter of a rectangle is 100cm, its length is 32cm. Find its breadth.
- 10. The area of a circle is 616sq. cm. Find its radius.
- 11. Find the perimeter of a semicircle if its radius is 3.5 cm.
- 12. The radii of the concentric circles are 10.5cm, 7cm. Find the width of the ring.
- 13. The length of an arc of a sector is 12cm and radius is 7cm. Find the area of the sector.
- 14. The angles of quadrilateral are x^0 , $(x + 10)^0$, $(x + 20)^0$ and $(2x 30)^0$. Find the value of 'x'.
- 15. The parallel sides of a trapezium are 12cm, 8cm and the distance between them is 6.4cm.Find the area of the trapezium.

II	Choose the correct	answer:					
16.	The sides of triangle are 8cm, 5cm and 3cm then it ist			_triangle	[]	
	a)scalene	b)Isosceles	c)Equilateral	d)None			
17.	The area of an equilateral triangle whose height is 'h'						
	a) $\frac{\sqrt{3}}{2}h^2$	b) $\frac{2h}{\sqrt{3}}$	c) $\frac{h^2}{\sqrt{3}}$	d)None			
18.	The ratio of sides of a triangle is $1:\sqrt{3}:2$ then it is]	
	a)Scalene	b)Isosceles	c)Right angled trian	gle d)No	one		
19.	The perimeter of a right angled Isosceles triangle is 90cm and its hypotenuse is 39 cm.						
	other two sides are				[]	
	a) 15cm, 36cm	b) 25.5cm, 25.5cm	c) 28cm , 18cm	d) None			
20.	The angles of a triangle are 45° , 45° and 90° then the ratio of sides is]	
	a) $1:\sqrt{3}:2$	b) 1 : 1 : 1	c) $1:1:\sqrt{2}$	d) 1 : 2 : $\sqrt{3}$			
21.	The side of a square is 3cm then .its diagonal is]	
	a) $2\sqrt{3}$	b) $3\sqrt{2}$	c) $2/\sqrt{3}$	d) $\frac{3}{\sqrt{2}}$			
22.	In a square PQRS, PR is the diagonal then $\angle QPR =$]	
	a)45 ⁰	b)90 ⁰	c)60 ⁰	d)None			
23.	If the side of a square is doubled, then its area becomes times the original ar						
	a) 2	b) 4	c) 3	d) 8			
24.	A circle and a square each has a perimeter of 44cm. Which has a bigger area?						
	a) Circle	b) Square	c) Equal area	d) None	[]	
25.	The diagonals of a rhombus are 16 cm and 12cm respectively, then its altitude is						
	a) 64 cm	b)10 cm	c) 96cm	d) 32cm			
26.	The angle between the diagonals of a rhombus is						
	a)45 ⁰	b) 90 ⁰	c) 60^0	d) 180 ⁰			
27.	The area of a parallelogram is 40cm^2 and its base is 8cm. Then its height						
	a) 10cm	b) 8cm	c) 4cm	d) 5cm			
28.	Sum of the adjacent angles of a parallelogram is						
	a)90 ⁰	b)120 ⁰	c)360 ⁰	d)180 ⁰			
29.	The angle subtended at the centre of a circle of radius 14cm by an arc of leng						
	a) 60 ⁰	b)120 ⁰	c) 90^0	d)135 ⁰	[]	

30.	The diameter of a wheel is 14cm, how far will it travel in 10 revolutions?]	
	a) 8.8cm	b) 880cm	c) 220cm	d) None			
31.	Area of a circle whose diameter is 'd ' is						
	a) $\frac{\pi d^2}{4}$	b) πd^2	c) πd	d) None			
п.	Fill in the bla	nks					
32.	The angles of a triangle are 60° , 60° , 60° then it is						
33.	Semi perimeter of a triangle with side 3cm, 5cm and 8cm is						
34.	Area of a square is 16p ² sq.cm then its perimeter is						
35.	The ratio between side and diagonal of a square is						
36.	Perimeter of a semicircle is 18cm, then its radius is						
37.	The circumference of a circle (C) is 2π r then radius (r) =						
38.	The ratio between circumference and diameter of a circle is						
39.	The angle of a sector is 60^0 and radius is 7cm, then its area is						