

Mount Litera Zee School Roorkee
Grade –VII
Subject-Mathematics Worksheet
Topic – Perimeter and Area

Date-20.02.2021

1. The area of a rectangular sheet is 500 cm^2 . If the length of the sheet is 25 cm, what is its width?

- (a) 20 cm (b) 17 cm (c) 30 cm (d) 25 cm

2. Which figure encloses more area: a square of side 2 cm; a rectangle of side 3 cm & 2 cm; An equilateral triangle of side 4 cm?

- (a) rectangle (b) square (c) triangle (d) same of rectangle & square

3. The area of parallelogram is:

- (a) base + height (b) base \times height (c) base \times base (d) height \times height

4. Which of the following has the formula: **Base \times Height**

- (a) area of parallelogram (b) area of quadrilateral
(c) area of triangle (d) area of trapezium

5. If the area of the triangle is 36 cm^2 and the height is 3 cm, the base of the triangle will be:

- (a) 12 cm (b) 39cm (c) 108 cm (d) 24 cm

6. The perimeter of square of side 2.55 m is:

- (a) 10.2 m (b) 10.2 m^2 (c) 6.25 m^2 (d) 6.25 m

7. Area of triangle whose base is 15 cm and corresponding altitude is 6 cm will be:

- (a) 45 cm^2 (b) 90 cm^2 (c) 45 cm (d) 90 cm

8. The circumference of circle whose diameter is 14 cm will be:

- (a) 44 cm (b) 88 cm (c) 44 cm^2 (d) 88 cm^2

9. If the area of circle is 44 cm^2 , the area of shaded portion will be:

- (a) 11 cm^2 (b) 11 cm (c) 22 cm^2 (d) 22 cm^2



10. The diameter of a circle is:

- (a) r^2 (b) $2r$ (c) $2\pi r^3$ (d) πr^2

11. $1 \text{ m}^2 = \dots\dots\dots$

- (a) 100 cm^2 (b) 1000 cm^2 (c) 10000 m^2 (d) 10000 cm^2

12. The value of constant π is:

- (a) 31.4 (b) $\frac{22}{7}$ (c) $\frac{7}{22}$ (d) 314

13. The difference between the circumference and radius of a circle is 37 cm. The area of the circle is:

- (a) 111 cm^2 (b) 184 cm^2 (c) 154 cm^2 (d) 259 cm^2

14. On decreasing the radius of the circle by 30%, its area is decreased by:

- (a) 30% (b) 60% (c) 45% (d) none of these

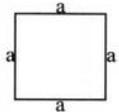
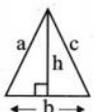
15. The diameter of a wheel is 40 cm. How many revolutions will it make on covering 176 m?

- (a) 140 (b) 150 (c) 160 (d) 166

16.Fill In The Blanks

1. $1 \text{ m}^2 = \dots\dots\dots \text{ cm}^2$.
2. Perimeter of a regular polygon = length of one side \times
- 3.The distance around a circle is its
4. If a wire in the shape of the square is rebent into a rectangle, then the of both shapes remain same, but may vary.

17.Complete the following Table:

Figure with Dimension	Area	Perimeter
1. Square 
2.	$l \times b$
3.	$2\pi r$
4. Triangle 

18. Perimeter of a square park is 2000m. Find its area.

19. A rectangular plot is 75 metre long and 60 metre broad. It has a path of width 2 metre all around it inside. Find the area of the path.

20. From a circular sheet of radius 4cm, a circle of radius 3cm is removed. Find the area of the remaining sheet (Take $\pi = 3.14$).

21. The ratio of radii of two circles is 4:5. Find the ratio of their areas