

# INTERNATIONAL INDIAN SCHOOL BURAIDAH

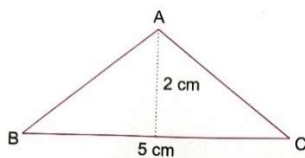
Worksheet for the Academic Year 2023-24

**CLASS: VII    SUBJECT: MATHEMATICS    DATE:10-12-2023**

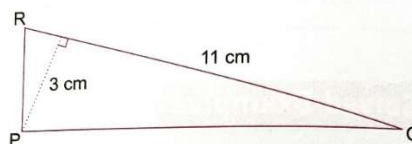
## **LESSON: 11 – PERIMETER AND AREA**

1. The distance around a circle is its -----
2. The perimeter of a regular polygon = length of one side  $\times$  -----
3. The circumference of a circle is always more than -----times of its diameter.
4. ----- of a closed figure is the part of the plane occupied by the figure.
5. The ratio of the circumference of a circle to its diameter is denoted by the symbol-----
6. The value of  $\pi$  = ----- approximately.
7.  $1\text{cm}^2 = \text{----- mm}^2$
8.  $1\text{m}^2 = \text{----- cm}^2$
9. 1 hectare =-----  $\text{m}^2$
10. Find the perimeter of the rectangle ABCD in which  $AB = 15\text{cm}$  and  $BC = 8\text{cm}$
11. Find the perimeter of an equilateral triangle XYZ in which  $XY = 7.5\text{cm}$
12. The perimeter of a square is  $52\text{cm}$ . Find its Area?
13. The perimeter of a rectangle is  $40\text{m}$ . Its length is four meters less than five times its breadth. Find the area of the rectangle.
14. A wire is in the form of a square of side  $16\text{cm}$ . It is bent to make a rectangle of breadth  $10\text{cm}$ . Find the length of the rectangle formed. Find which one has more area?
15. Find the area of the following figures:

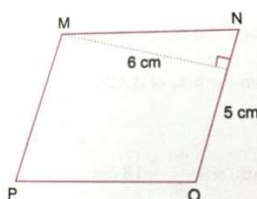
a)



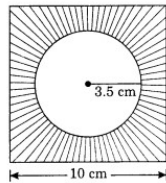
b)



c)



16. The two sides of a parallelogram are  $AB = 12\text{cm}$  and  $BC = 8\text{cm}$ . The height corresponding to  $AB$  is  $5\text{ cm}$ . Find the area of the parallelogram and the height corresponding to  $BC$
17. The altitude to the sides  $AB$  and  $AD$  of a parallelogram  $ABCD$  are  $5\text{cm}$  and  $20\text{cm}$  respectively. If the area of the parallelogram is  $160\text{ sq.cm}$ , find its perimeter?
18. In the given figure, Find the area of the shaded portion. ( $\pi = \frac{22}{7}$ )



19. The diameter of a flower bed in a garden is  $2.8\text{m}$ . Find the cost of fencing it at the rate of  $\text{₹}55$  per m.
20. The circumference of a circle is  $88\text{cm}$ . find its area. (Take  $\pi = \frac{22}{7}$ )
21. Find the number of times a wheel of radius  $56\text{cm}$  must rotate to cover  $264\text{m}$  (Take  $\pi = \frac{22}{7}$ )

**Answers:**

- |                       |  |                                   |
|-----------------------|--|-----------------------------------|
| 1. Circumference      | 2) No of sides                               | 3) 3 times                        |
| 4) Area               | 5) $\pi$                                     | 6) $\frac{22}{7}$ or 3.14         |
| 7) $100\text{mm}^2$   | 8) $10000\text{cm}^2$                        | 9) $10000\text{cm}^2$             |
| 10) $46\text{cm}$     | 11) $22.5\text{cm}$                          | 12) $169\text{m}^2$               |
| 13) $96\text{m}^2$    | 14) $l = 22\text{cm}$ , Square has more area | 15) a) $5\text{cm}^2$             |
| b) $16.5\text{ cm}^2$ | c) $30\text{cm}^2$                           | 16) $60\text{cm}^2, 7.5\text{cm}$ |
| 17) $80\text{cm}$     | 18) $61.5\text{cm}^2$                        | 19) $\text{₹}484$                 |
| 20) $616\text{cm}^2$  | 21) 75                                       |                                   |

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