



# SHREE VASISHTHA VIDHYALAYA

Maths Worksheet 2025-26



Name :- \_\_\_\_\_

Roll No. :- \_\_\_\_\_

Term-2 Worksheet no- 02

Std.:- IV - \_\_\_\_\_

Date :- \_\_\_\_\_

L-10 (Geometry), L-11 (Perimeter and Area)

### Q-1) Choose the correct option.

- A shape that has 4 sides is called a \_\_\_\_\_.  
 a) Triangle  b)  quadrilateral c) circle
- The distance around a closed figure is called \_\_\_\_\_.  
 a) Perimeter b) Area c) length
- A square has \_\_\_\_\_.  
 a) 2 equal sides  b) all sides equal c) no sides
- The area of a figure is measured in \_\_\_\_\_.  
 a) cm  b)  $\text{cm}^2$  c) m
- Which of the following has no corners?  
 a) triangle b) rectangle  c) circle
- The longest chord of a circle is called the \_\_\_\_\_.  
 a) radius  b) diameter c) centre
- If the diameter of a circle is 12 cm its radius is \_\_\_\_\_.  
 a) 6 cm b) 10 cm c) 12 cm
- Perimeter of a triangle whose sides are 12cm, 16 cm and 20 cm is \_\_\_\_\_ cm.  
 a) 48 b) 47 c) 46
- If 'NICE' is coded as 'MHBD', how is 'GOOD' written in that code?  
 a) CNNF  b) FNNC c) FCNN
- If 'POND' is written as 'ONMC', how is 'LAKE' written in that code?  
 a) KZJD b) KBJD c) MZJD

### Q-2) Fill in the blanks.

- A triangle has 3 sides.
- The perimeter of a square = 4  $\times$  side
- Circle with same centre are known as concentric circles.
- A rectangle has 2 pairs of equal sides.
- The area of a rectangle = length  $\times$  breadth
- The distance from the centre of a circle to its boundary is called the radius.
- The diameter is twice the radius of a circle.
- A circle has no corners.
- A 5 sided polygon is called a pentagon.
- The area is the measure of the flat surface enclosing a figure.

### Q-3) Write True or False.

- A square is a special rectangle. T
- Perimeter tells how much space a shape covers. F
- An octagon is a polygon with 7 sides. F
- Area is measured in square units. T

- 5) A triangle has four corners.  
 6) A diameter is twice the radius.  
 7) A circle has straight sides.  
 8) Every circle has exactly one centre.  
 9) Bird : Fly :: Fish : Walk  
 10) 11: 121 :: 15 : 425

F  
T  
F  
T  
F  
F

Q-4) Match the following.

- |              |                            |             |
|--------------|----------------------------|-------------|
| 1. Triangle  | a) 4 equal sides           | 1. <u>d</u> |
| 2. Rectangle | b) distance around a shape | 2. <u>c</u> |
| 3. Square    | c) opposite sides equal    | 3. <u>a</u> |
| 4. Perimeter | d) 3 sides                 | 4. <u>b</u> |

Q-5) Do as directed.

1) Find the perimeter of the square whose side is:

a) 8cm

b) 13 cm

$\begin{aligned} \text{Perimeter of square} &= 4 \times \text{side} \\ &= 4 \times 8 \text{ cm} \\ &= 32 \text{ cm} \end{aligned}$	$\begin{aligned} \text{Perimeter of square} &= 4 \times \text{side} \\ &= 4 \times 13 \text{ cm} \\ &= 52 \text{ cm} \end{aligned}$
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2) Find the perimeter of the rectangle whose length and breadth are:

a) 4cm, 2cm

b) 17 cm, 9 cm

$\begin{aligned} \text{Perimeter of rectangle} &= 2(l+b) \\ &= 2 \times (4+2) \text{ cm} \\ &= 2 \times 6 \text{ cm} \\ &= 12 \text{ cm} \end{aligned}$	$\begin{aligned} \text{Perimeter} &= 2(l+b) \\ &= 2(17+9) \text{ cm} \\ &= 2 \times 26 \text{ cm} \\ &= 52 \text{ cm} \end{aligned}$
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3) Find the area of rectangles of dimensions:

a) 24 cm by 19 cm

b) 12 cm by 9 cm

$\begin{aligned} \text{Area of rectangle} &= l \times b \\ &= (24 \times 19) \text{ cm} \\ &= 456 \text{ sq. cm} \end{aligned}$	$\begin{aligned} \text{Area} &= l \times b \\ &= (12 \times 9) \text{ cm} \\ &= 108 \text{ sq. cm} \end{aligned}$
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4) What is the length of the side of a square whose perimeter is:

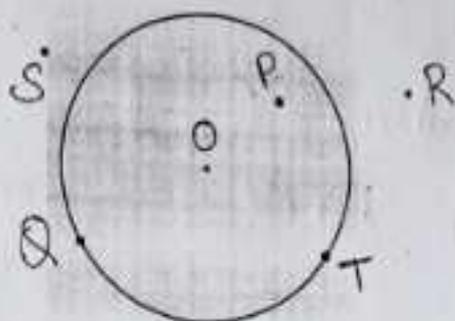
a) 112 cm

b) 96 cm

$\begin{aligned} \text{Perimeter} &= 112 \text{ cm} \\ \text{Side of square} &= P \div 4 \\ &= 112 \div 4 \\ &= 28 \text{ cm} \end{aligned}$	$\begin{aligned} \text{Perimeter} &= 96 \text{ cm} \\ \text{Side of square} &= P \div 4 \\ &= 96 \div 4 \\ &= 24 \text{ cm} \end{aligned}$
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5) From the following figure, name the points which lie in the:

- a) Interior of circle O, P  
 b) Exterior of circle S, R  
 c) On its circumference Q, T

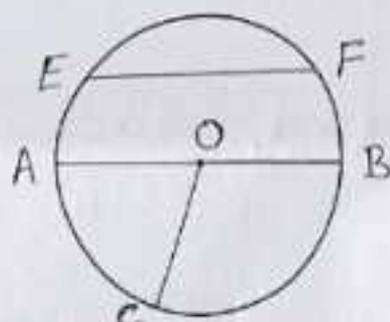


6) Draw the following:

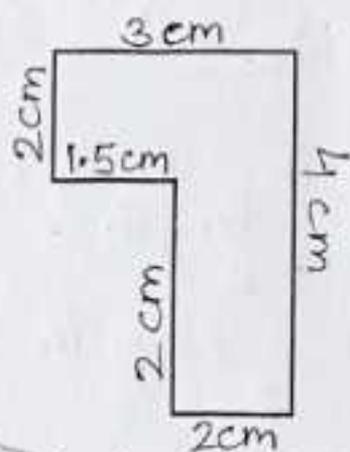
a) Ray	b) Line segment	c) Hexagon	d) Octagon

7) In the figure, name the parts of the circle:

- a) Centre O  
 b) Radius OC, OB, OA  
 c) Diameter AB  
 d) Chord EF, AB



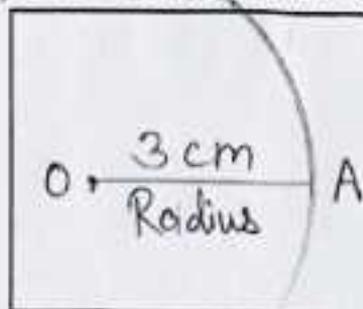
8) Find the perimeter of the given figure with the help of given measures:



$$\begin{aligned} \text{Perimeter} &= \text{Sum of all the sides} \\ &= (3 + 4 + 2 + 2 + 1.5 + 2) \text{ cm} \\ &= 14.5 \text{ cm} \end{aligned}$$

9) Draw a circle whose radius is 3 cm and find its diameter:

$$\begin{aligned} \text{Diameter} &= 2 \times \text{radius} \\ &= 2 \times 3 \text{ cm} \\ &= 6 \text{ cm} \end{aligned}$$



Q-7. Story sums.

1. The length of a rectangle is 10 cm and breadth is 6 cm. Find its perimeter.

Solution:- Length = 10 cm, Breadth = 6 cm, Perimeter = ?

$$\begin{aligned}\text{Perimeter of rectangle} &= 2 \times (l+b) \\ &= 2 \times (10+6) \text{ cm} \\ &= 2 \times 16 = 32 \text{ cm}\end{aligned}$$

$\therefore$  Perimeter of the rectangle = 32 cm.

2. A square garden has a side of 12 m. Find its area.

Solution:- Side of a square garden = 12 m

$$\begin{aligned}\text{Area of a square} &= \text{Side} \times \text{Side} \\ &= (12 \times 12) \text{ m} \\ &= 144 \text{ sq. m}\end{aligned}$$

$\therefore$  Area of a square garden = 144 sq. m.

3. Riya wants to put a ribbon around a photo frame of length 9 cm and breadth 5 cm. How much ribbon does she need?

Solution:- Length of photo frame = 9 cm  
Breadth of photo frame = 5 cm  
Perimeter = ?

$$\begin{aligned}\text{Perimeter of rectangle} &= 2 \times (l+b) \\ &= 2 \times (9+5) \text{ cm} \\ &= 2 \times 14 = 28 \text{ cm}\end{aligned}$$

$\therefore$  Riya needs 28 cm of ribbon.

4. Find the length of a rectangle whose area is 96 sq. cm and breadth is 12 cm.

Solution:- Area of rectangle = 96 sq. cm  
Breadth = 12 cm, length = ?

$$\begin{aligned}\text{Area of rectangle} &= l \times b \\ \therefore \text{Length} &= \text{Area} \div \text{Breadth} \\ &= 96 \div 12 \\ &= 8 \text{ cm}\end{aligned}$$

$\therefore$  The Length of the rectangle is 8 cm.