

Chapter- 14

Perimeter and area

WORKSHEET

A. FILL IN THE BLANKS.

- The length of the boundary of a closed figure is called its Perimeter.
- A square is a figure in which all the sides are equal.
- Rectangle is a closed figure having equal opposite sides.
- Perimeter of a square = 4 x length of one side
- The surface enclosed by a 2-D or plane figure is known as its area.

B. DO AS DIRECTED.

6. Find the perimeter of a triangle in which all sides are 7 cm.



Perimeter = $AB + BC + CA = 7 + 7 + 7 = 21 \text{ cm}$

7.



Area of 1 square = $1 \times 1 = 1 \text{ cm}^2$

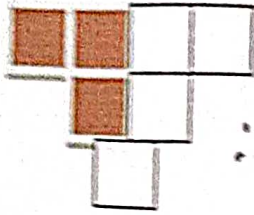
Number of squares in the figure = 16

∴ Area of the figure = $1 \times 16 = 16 \text{ cm}^2$

Find the area of the above figure if each square has an area of 1 sq.cm.

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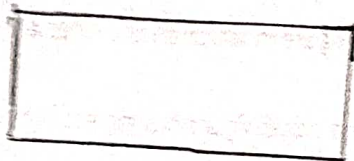
8.



Area of 1 square = 1×1
 $= 1 \text{ cm}^2$
 \therefore Area of 3 squares = $3 \times 1 \text{ cm}^2$
 $= 3 \text{ cm}^2$

Find the area of the shaded region if each square has an area of 1 sq. cm.

9. Find the perimeter of the rectangle whose length is 7 cm and breadth is 4 cm.



Length = 7 cm, breadth = 4 cm
 Perimeter = $2 \times (\text{Length} + \text{breadth})$
 $= 2 \times (7 + 4)$
 $= 2 \times 11$
 $= 22$

Ans: 22 cm

10. Find the perimeter of the square whose side is 13 m.

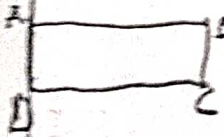


Length of one side = 13 cm
 Perimeter = $4 \times \text{Length of one side}$
 $= 4 \times 13$
 $= 52$
 Ans: 52 cm

C. SOLVE THE FOLLOWING QUESTIONS.

EDUCATIONAL GROUP

11. The length of a floor is 70 m and its breadth is 40 m. Find the perimeter of the floor.



The length and breadth is given, so it is a rectangle floor,

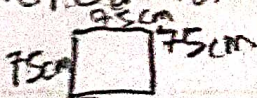
Perimeter of rectangle floor = Length 70 m, breadth 40 m

Perimeter = $2 \times (\text{Length} + \text{breadth}) = 2 \times (70 + 40)$
 $= 110 \times 2 = 220$

12. A square shaped garden is of length 75 m. How much wire will be required for fencing around it thrice? Also write the importance of plant in our life.

The length of the square garden is 75 m,
 Perimeter of the square is = $4 \times \text{length of one side} = 75 \times 4$

Wire required for fencing around it thrice = $300 \times 3 = 900 \text{ m}$



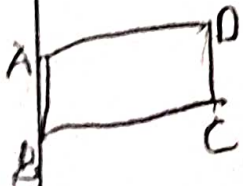
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And importance of a plant in our life is.

- a) Plants give us fruits and vegetables.
- b) Plants give us flowers.
- c) Plants grow and become ^{a tree} and that tree gives us wood and etc things: it gives us. And that why plants are so important.

13. A cloth is 8 m long and 5 m wide. If Leena wants to lace it around, how much lace is required? Length and breadth is given so it is a rectangle cloth.

$$\text{Perimeter of rectangle cloth} = 2 \times (\text{Length} + \text{breadth}) = 2(8 + 5) = 13 \times 2 = 26 \text{ m}$$



14. Write the formulas to find the perimeter of square, rectangle and triangle.

Formula of square = Perimeter of square = $4 \times$ Length of one side

Formula of rectangle = Perimeter of rectangle = $2 \times (\text{Length} + \text{breadth})$

Formula of triangle = Perimeter of triangle = Sum of length of all three sides.

15. A triangular field has its sides of length 130 m, 110 m and 90 m respectively.

Calculate the distance travelled by a woman if he goes around the field twice.

The length of all the sides of the triangular park is = 130 m, 110 and 90 m

$$\text{Perimeter of the triangular park is} = AB + BC + CA = 130 + 110 + 90 = 330 \times 2 = 660 \text{ m}$$

