

WORKSHEET

classmate

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PERIMETER AND AREA

A

- 1- The length of the boundary of a closed figure is called its Perimeter.
- 2- A square is a figure in which all the sides are equal.
- 3- Rectangle is a closed figure having equal opposite sides.
- 4- Perimeter of a square = 4 $\times$ length of one side.
- 5- 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.

Ans Side = 7 cm

$$\text{Perimeter} = AB + BC + CA$$

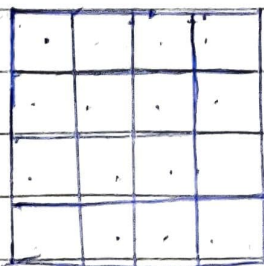
$$= 7 + 7 + 7$$

$$= 3 \times 7$$

$$= 21 \text{ cm}$$

The perimeter of the triangle is 21 cm.

7.



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

Ans

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

Number of squares = 16

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

8.



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

~~Find the area~~

Ans Number of ~~squares~~ shaded squares

= 3

$\therefore$ Area of the figure = $1 \times 3 = 3 \text{ cm}^2$

Ans

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

Ans Length = 7 cm, breadth = 4 cm

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

$$= 2 \times (7 + 4)$$

$$= 2 \times 11$$

$$= 22 \text{ cm}$$

So, the perimeter of the rectangle is 22 cm

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

Ans - Length of one side = 13 cm

Perimeter = $4 \times \text{Length of one side}$

$$= 4 \times 13$$

$$= 52 \text{ cm}$$

So, the perimeter of the square is 52 cm.

Q. Solve the following questions.

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

Ans - Length = 70 m, breadth = 40 m

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

$$= 2 \times (70 + 40)$$

$$= 2 \times 110$$

$$= 220 \text{ m}$$

So, the perimeter of the floor is 220 m

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

Ans Length of one side = 75 m

$$\text{Perimeter} = 4 \times \text{Length of one side}$$

$$= 4 \times 75$$

$$= 300$$

$$300 \times 3 = 900 \text{ m}$$

So, it will be required of 900 m of wire.

Plants are important for us because they give us oxygen.

13. A cloth is 8m long and 5m wide. if Leena wants to lace it around, how much lace is required?

Ans- Length = 8m, breadth = 5m
 Perimeter = $2 \times (\text{Length} + \text{breadth})$

$$= 2 \times (8 + 5)$$

$$= 2 \times 13$$

$$= 26 \text{ m}$$

Leena will need 26 m
 lace to lace the cloth

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

Ans- Square =

Length of one side = 4 cm

Perimeter = $4 \times \text{Length of one side}$

$$= 4 \times 4$$

$$= 16 \text{ cm}$$

Rectangle =

Length = 6 cm, breadth = 2 cm

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

$$= 2 \times (6 + 2)$$

$$= 2 \times 8$$

$$= 16 \text{ cm}$$

Triangle =

Side = 5 cm

Perimeter = $AB + BC + CA$

$$= 5 + 5 + 5$$

$$= 3 \times 5$$

$$= 15 \text{ cm}$$

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.

Ans- Side = 130 m, 110 m, 90 m

$$\text{Perimeter} = AB + BC + CA$$

*

$$= 130 + 110 + 90$$

$$= ~~330~~ \text{ m } 3 \times 330$$

$$= 990 ,$$

$$990 \times 2 = 1980 \text{ m}$$

So, the woman travelled 1980 m