

## Perimeter and area

SCHOLAR

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A

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

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

7cm

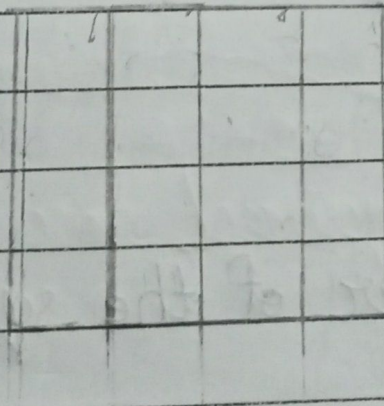
$$P = AB + BC + CA$$

$$= 7 + 7 + 7$$

$$= 3 \times 7$$

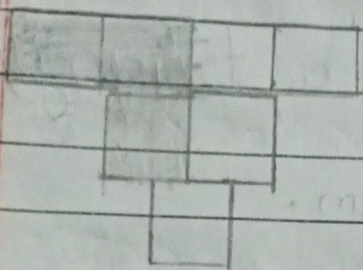
$$= 21 \text{ cm}$$

7



16 sq. cm

8



3 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

$$P = 2 \times (L + B)$$

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

$$= 2 \times 11$$

$$= 22 \text{ cm}$$

10 Find the perimeter of the square whose

side

side is 13 m

Length of one side = 13 m

$$P = 4 \times 13 \text{ m}$$

$$= 4 \times 13$$

$$= 52 \text{ m}$$

C

11

of the /s

$$\text{Length} = 70 \text{ m} \cdot \text{Breadth} = 40 \text{ m}$$

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

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

$$= 2 \times 110$$

$$= 220 \text{ m}$$

12 Length of one side of a square shaped garden = 75 m

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

$$= 4 \times 75$$

$$= 300$$

$$\begin{array}{r} 70 \\ + 40 \\ \hline 110 \end{array}$$

to fencing it thence

$$300 \times 3 = 900$$

$\therefore$  900m wire will be required for fencing

around it. Importance of plant in our life is they give us oxygen

13 Length of a cloth = 8m. Width of a cloth = 5m

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

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

$$= 2 \times 13$$

$$= 26 \text{ m}$$

$\therefore$  26m lace is required for lacing around it.

14 Formula to find perimeter of a square.

$$\text{Perimeter of a square} = 4 \times \text{length of one side}$$

Length of one side = 2 cm

Perimeter = 4 × length of one side

$$= 4 \times 2$$

$$= 8 \text{ cm}$$

Formula to find a perimeter of a rectangle

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

Length = 2 cm, Breadth = 3 cm

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

$$= 2 \times (2 + 3)$$

$$= 2 \times 5$$

$$= 10 \text{ cm}$$

Formula to find a perimeter of a triangle

Perimeter of a triangle = Sum of length of all three sides

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

$$= 2 + 3 + 2$$

$$= 7 \text{ cm}$$

15 Perimeter of a triangle park = Sum of all three sides

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

$$= 130 + 110 + 90$$

$$= 330$$

So perimeter of a triangle park = ~~20~~ 130 + 110 + 90 = 330 m

If a woman ~~has~~ have to cover twice =

$$330 \times 2 = 660$$

$$= 660 \text{ m}$$

∴ If a woman goes twice then she covers

$$660 \text{ m}$$