

CLASS: 4

Ch. 10. PERIMETER AND AREA

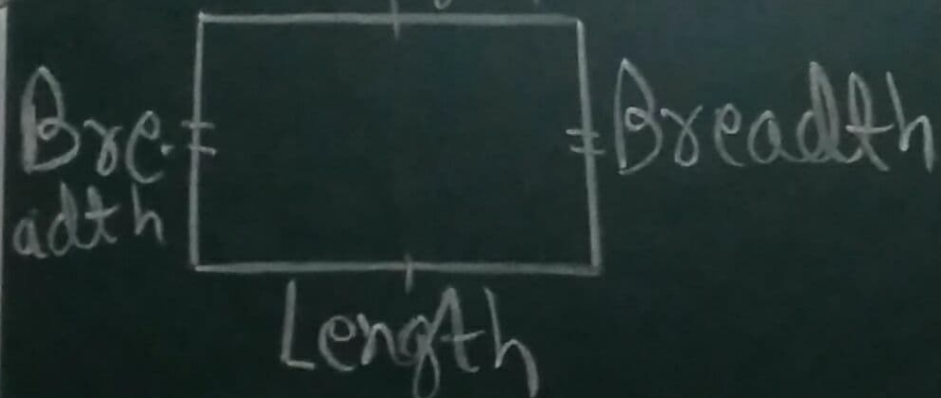
MATHS

VIDEO-1

Perimeter:- The distance around a closed figure or outer boundary of a closed figure is known as the perimeter of the figure. Unit of perimeter is same as the unit of length. For example, if the sides of a polygon are given in centimetres, then the perimeter of the polygon will also be in centimetres.

(1) Perimeter of a triangle = Sum of lengths of all the three sides

(2) Perimeter of a rectangle = Sum of lengths of all the four sides

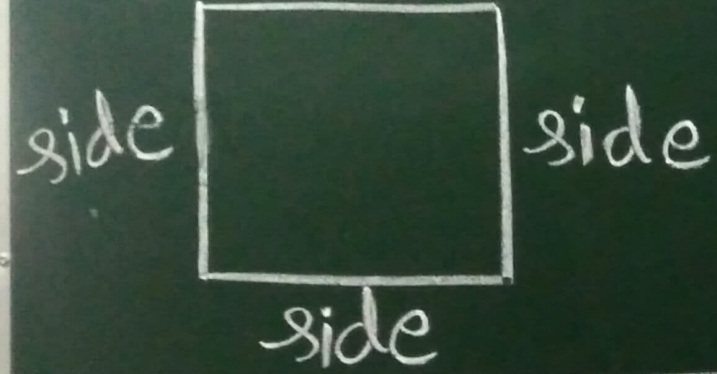


$$= \text{Length} + \text{Breadth} + \text{Length} + \text{Breadth}$$

$$= 2 \times \text{Length} + 2 \times \text{Breadth}$$

$$= 2 \times [\text{Length} + \text{Breadth}]$$

(3) Perimeter of a square = Sum of lengths of all the four sides

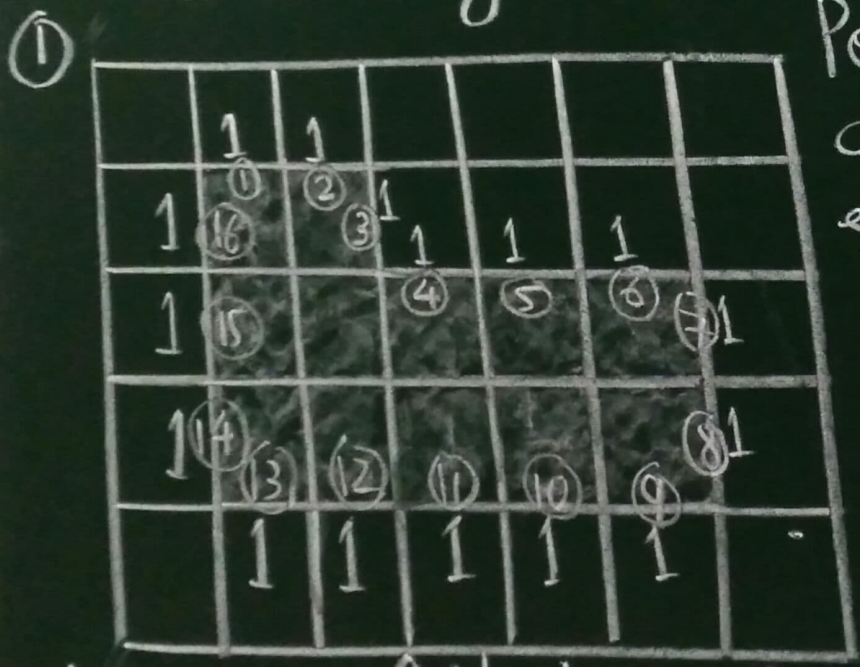


$$= \text{side} + \text{side} + \text{side} + \text{side}$$

$$= 4 \times \text{side}$$

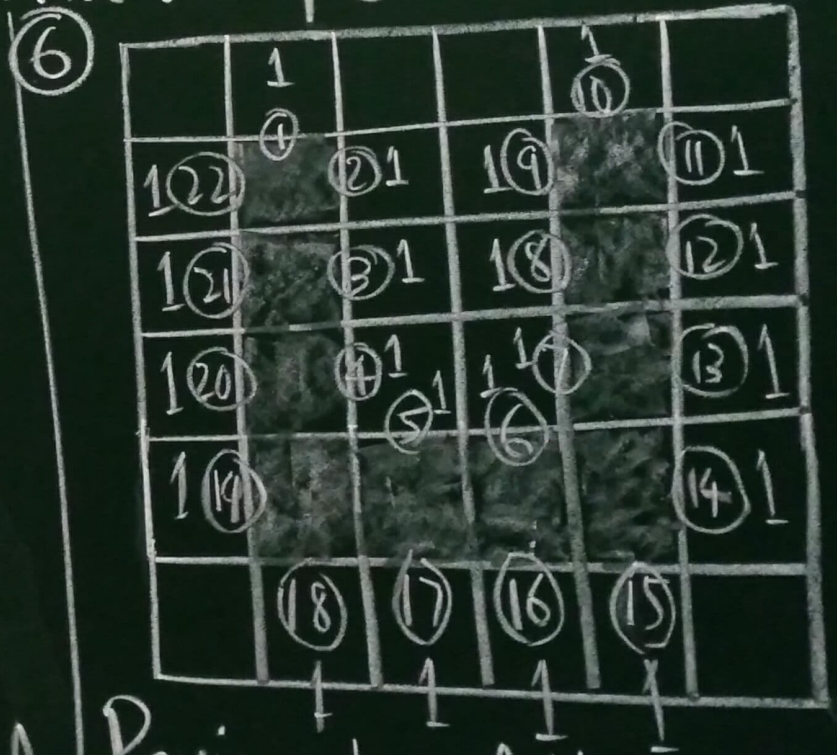
EXERCISE-10A PAGE-150 & 151

Q. A. Each of the following figures is drawn on 1 cm square graphs. Find the perimeter of each shaded figure:



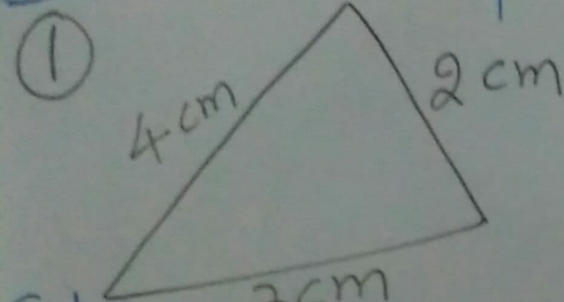
Perimeter of the shaded figure

= Length of its boundary = 16 cm



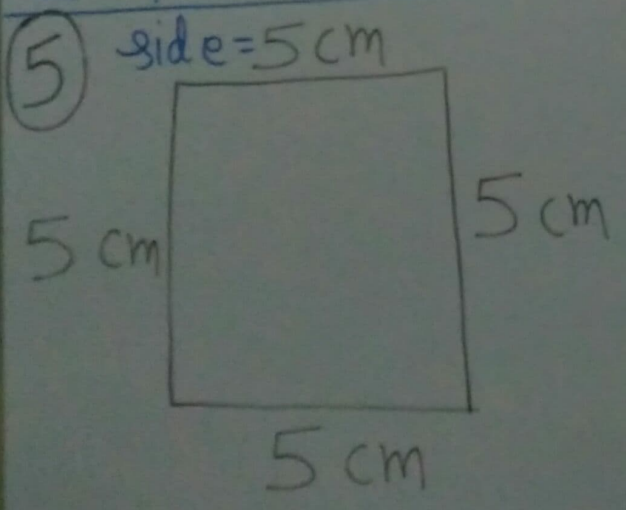
Perimeter of the shaded figure = 22 cm

Q.B. Find the perimeter of each of the following figures:



Solution

Perimeter of the triangle = Sum of lengths of all the three sides

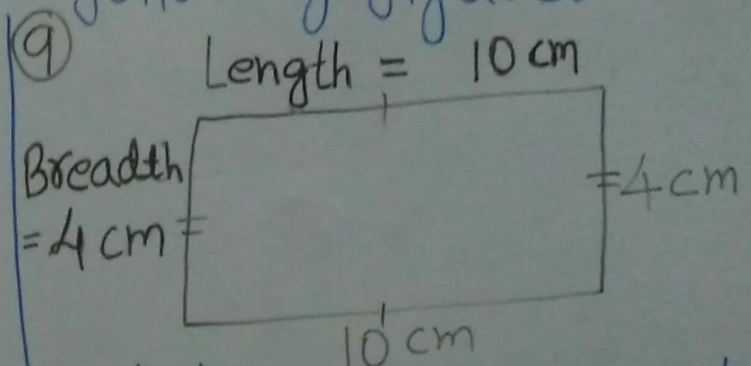
$$= 2\text{ cm} + 3\text{ cm} + 4\text{ cm}$$
$$= 9\text{ cm Ans}$$


Solution:

Perimeter of the square = Sum of lengths of all the four sides

$$= 5\text{ cm} + 5\text{ cm} + 5\text{ cm} + 5\text{ cm} = 20\text{ cm Ans}$$

OR Perimeter of the square = $4 \times \text{side}$

$$= 4 \times 5\text{ cm}$$
$$= 20\text{ cm Ans}$$


Solution:

Perimeter of the rectangle = Sum of lengths of all the four sides

$$= 10\text{ cm} + 4\text{ cm} + 10\text{ cm} + 4\text{ cm}$$
$$= 28\text{ cm Ans}$$

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

$$= 2 \times (10\text{ cm} + 4\text{ cm})$$
$$= 2 \times 14\text{ cm} = 28\text{ cm Ans}$$