## **Ch-3 How many square?**

## ♦ <u>Summary :</u>

- Introduction
- Find out the perimeter of the shape given below
- Find the perimeter
  - i. Rectangle
  - ii. Square
  - iii. Triangle
- Find the area
  - i. Rectangle
  - ii. Square
  - iii. Triangle
- Problem sums
- Activity

## Introduction:

- The perimeter is the distance around the edge of a shape.
- The area is the amount of surface covered by a shape.
- Area is measured in square units, for example: cm<sup>2</sup>
- Formulas of perimeter and area :
  - a. Perimeter of rectangle= 2( length + breadth) = 2( 1 + b)
    Perimeter of square = 4×length= 4×l
    Perimeter of triangle= Sum of three sides
  - b. Area of rectangle = Length × Breadth Area of square = length × Length Area of triangle= $\frac{1}{2}$  × altitude × base



✤ Find out the perimeter of the shape given below :



$$=\frac{1}{2} \times 5 \times 10$$
$$= 25 \text{ cm}^2$$

- Problem sum :
  - a) The perimeter of a rectangle field is 18 cm; its breadth is 2cm find the length of the field?

Solve: perimeter = 18cm, breadth = 2cm, length =? Perimeter of rectangle= 2(1+ b) 18 =2(1+2)

$$\frac{18}{2} = 1 + 2$$
  
9-2 =1  
1 = 7cm

Length of a field is 7cm

- b) The perimeter of a square field is 200m. Find the area of field?
  - **Solve:** perimeter = 200m, length =?

Perimeter of a square  $= 4 \times 1$ 200  $= 4 \times 1$ 

 $\frac{200}{1} = 1$ 

= 50 m

Area of a square = length  $\times$  length

L

 $=50 \times 50$ 

 $=2500 \text{ m}^2$ 

Area of square field is 2500 m<sup>2</sup>

c) A classroom black board is 75 cm long and 12 cm wide. Find the perimeter of black board?

Solve: length =75cm, breadth =12 cm Perimeter of a board= 2(1 + b)=2 (75 + 12) =2(87)

=174 cm

d) A carpet is 75 cm long and 80 cm wide. Find its area and perimeter.

Solve: length = 75 cm, breadth = 80 cm Perimeter of carpet = 2(1 + b)= 2(75+80)= 2(155)= 310 cm Area of carpet =  $1 \times b$ = $75 \times 80$ =6000 cm<sup>2</sup>

## **\*** Activity:

Paste different size of stamps in grid (any 5) (for example text book page no: 35)

