Cosmo School

Class-5

Subject-Mathematics

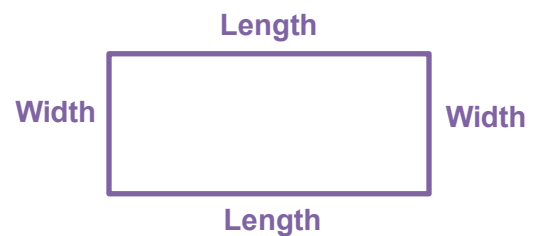**Revision Worksheet - 4**

Measurement

***What is area?**

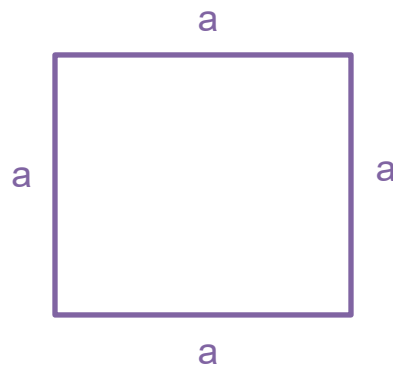*Area* is a measure of how much space there is on a flat surface.

***What is rectangle?**

A flat shape with four 90° angles and four sides, with opposite sides of equal length.
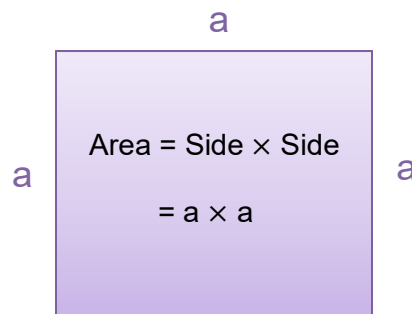
Area of rectangle:

$$Area = Length \times Width$$

Perimeter of rectangle = 2 × (Length + Width)

*What is square?

A *square* is a shape with four sides that are all the same length.

a

a   a

a

Area of square:

a

a   Area = Side × Side   a

= a × a

a

Perimeter of square = 4 × Side

Formula:

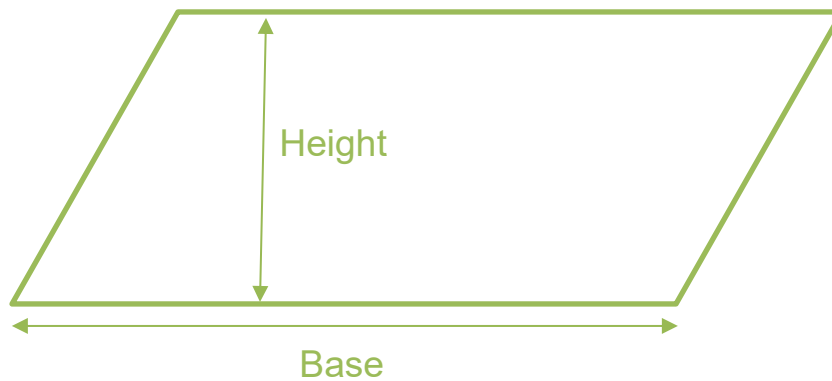**1)** Area of rectangle = Length × Width

2) Length = Area ÷ Width

3) Width = Area ÷ Length

4) Perimeter of rectangle = 2 × (Length + Width)

5) Area of square = Side × Side

6) Perimeter of square = 4 × Side

7) 1 ayor = 100 m^2

8) 1 hectare = 1000 m^2

9) 1 hectare = 100 ayor

10) 1 square km = 100 hectare

What is parallelogram?

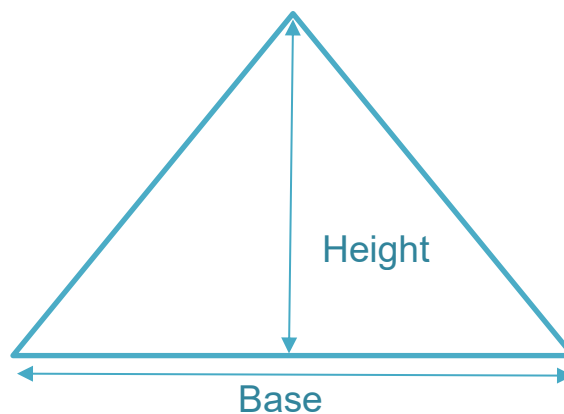A *parallelogram* is a four-sided shape in which each side is parallel to the side opposite.

Height

Base

Area of parallelogram = Base × Height

Base = Area ÷ Height

Height = Area ÷ Base

What is triangle?

A triangle is a closed figure with three sides.

Height

Base

Formula:

1) Area of triangle $= \dfrac{(\text{Base} \times \text{Height})}{2}$

2) Base $= \dfrac{(2 \times \text{Area})}{\text{Height}}$

3) Height $= \dfrac{(2 \times \text{Area})}{\text{Base}}$
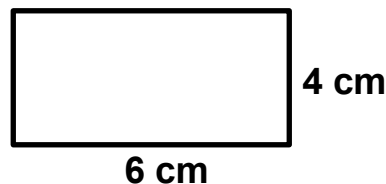
Creative Question:

1. The length of one side square region is 41 m.
    a. What is the area of the square region?
    b. If the length is 1 m least, what will be the area of the region?
    c. If the length is extending 1 m and breadth is reducing 1 m, what will be the area of the region?

2. The length of a rectangular field is 90 meters and the area is 3600 sq meters.
    a. What is the width of the field?
    b. What will its area be if the length of the field is increased by 2 meters?

3.

6 cm, 4 cm

    a. What is the area of above figure?
    b. Divide the figure into 2 triangle and find out the area of one triangle.
    c. If extend length 2 cm and breadth 1 cm of the figure, what will be the area.

4. A rectangular region is formed by 2 adjoining and non over lapping triangular regions of the same size the length of the rectangular is 16 m and breadth is 12 m.

      a. What is the area of the rectangular region?

      b. What is the area of the each triangular region?

      c. If the length of the rectangular region is 2 m extended, what will be the area of the region?

5. The width of a rectangular shape is 40 cm and the length is 3 times more than the width.

      a. What is the area of the shape?

      b. If the length is increased by 10 cm, calculate the area of the shape.

6. The length of a rectangular pond is 96 meters, and the width is 60 meters.

      a. What is the area of the pond?

      b. How many meters in width need to be extended to make the pond square?

      c. What will the area be if the length of the pond is lessened 16 meters?

7. The area of a rectangular field is 336 sq meter. The length of the field is 2100cm.

      a. How many meters is the breadth of the field?

      b. If we let the length of this rectangular field as 1 arm of a square, what will be the area?

      c. If the area of the field is not changed and the length is 42 meters, what will be breadth?