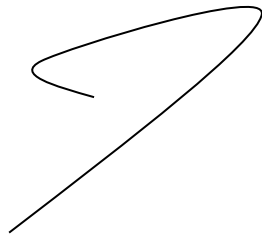


## Topic: Geometry

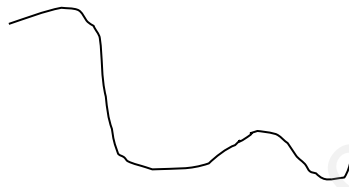
### Sub-topic: Basic Geometrical Concepts

#### Different Types of Lines

##### Curved Lines:



a.

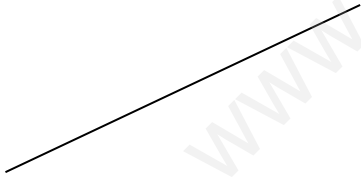


b.



c.

##### Straight Lines:



a.



b.



c.

Straight lines are of three types:

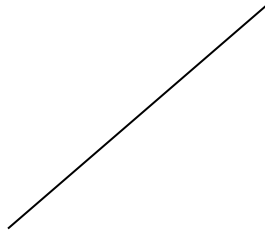
a. Horizontal or sleeping line



b. Vertical or Standing line

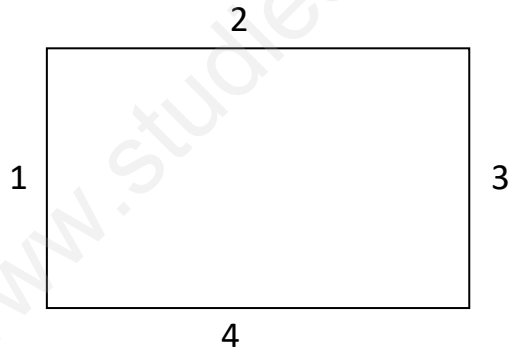


c. Slanting or Sloping line



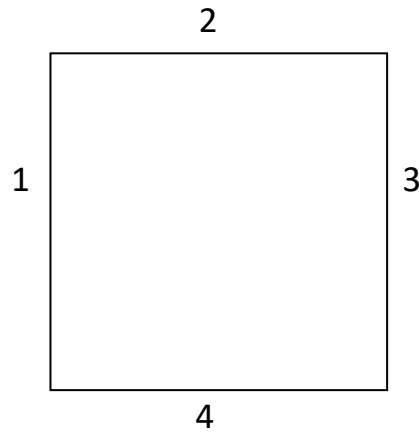
With the help of these lines we can make different figures or shapes like plane shapes and solid shapes.

## Plane shapes:



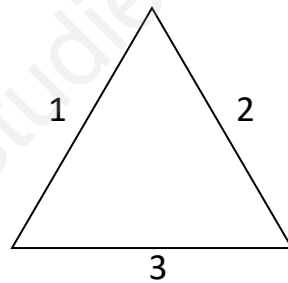
This is a rectangle.

- It has 4 sides.
- It has 4 corners/ vertices.
- Only opposite sides of a rectangle are equal . Here side ( 2 & 4), ( 1 & 3) are equal.



This is a square.

- It has 4 sides.
- It has 4 corners/ vertices.
- All the four sides of a square are equal i.e. side1= side 2= side 3= side 4

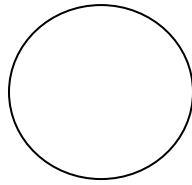


This is a triangle.

- It has 3 sides.
- It has 3 corners/vertices.
- Its sides may or may not have same length.

This is a circle.

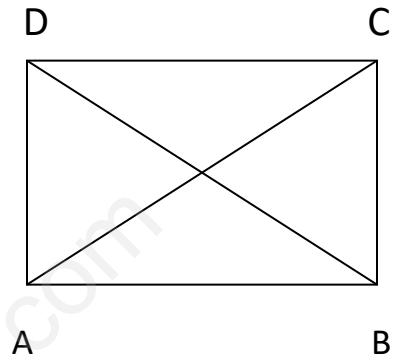
- It has no sides.
- It has no corners/ vertices.



**Diagonal:**

A line joining the opposite corners/ vertices of a shape is called its diagonal.

In the given figure, AC and BD are the diagonals.



## (Worksheet)

### Topic: Geometry

#### Sub-topic: Basic Geometrical Concepts

##### Q.1. Fill in the blanks.

- a. A square has \_\_\_\_\_ sides.
- b. The \_\_\_\_\_ sides of a rectangle are equal.
- c. The shape of a bottle cap is \_\_\_\_\_.
- d. A triangle has \_\_\_\_\_ vertices.

##### Q. 2. Write True or False for each of the following:

- a. A triangle has 3 sides and 4 vertices. \_\_\_\_\_
- b. Diagonals of a square are equal. \_\_\_\_\_
- c. All the 4 sides of a rectangle are equal. \_\_\_\_\_
- d. Diagonals of a rectangle are equal. \_\_\_\_\_
- e. A square has 2 pairs of opposite sides. \_\_\_\_\_

##### Q.3. In the given rectangle, can you write pair of:

a) Opposite sides?

\_\_\_\_\_ and \_\_\_\_\_

\_\_\_\_\_ and \_\_\_\_\_

b) Diagonals?

\_\_\_\_\_ and \_\_\_\_\_

