

Chapter 12

Plane shapes

- Closed figures are called plane shapes.
- Polygons are plane shapes that have three or more sides.
- They have special names depending on their number of sides.

Name	No of sides
Triangle	3
Quadrilateral	4
Pentagon	5
Hexagon	6
Heptagon	7
Octagon	8

Polygons have all sides of equal length are called **regular polygons**.

Four sided shapes

- There are different types of four sided shapes.
- They are commonly known as quadrilaterals.
- Some of them are squares, rectangles, parallelogram, rhombus, trapezium etc.

Square

- Sides of a square are equal in length.
- Opposite sides are parallel
- All angles are right angles.

Rectangles

- Opposite sides are parallel.
- Opposite sides are equal in length.
- All angles are right angles.

Parallelogram

- Opposite sides are parallel and equal
- Opposite angles are equal.

Rhombus

- All sides are equal in length
- Opposite sides are parallel and equal

Trapezium

- Can have a pair of opposite equal sides(isosceles trapezium)
- Only one pair of sides are parallel
- Can have a pair of right angles.