**QUADRILATERALS**

A quadrilateral is a plane shape that has four (4) sides. Quadrilaterals include:

1. Rectangles
2. Squares
3. Parallelograms
4. Rhombuses
5. Trapeziums
6. Kites

**Properties of Quadrilaterals**

1. ***Rectangles***
2. The opposite sides are equal in length
3. The opposite sides are parallel
4. All angles are equal. Each angle is equal to 90o (i.e. right angles)
5. The two diagonals are equal in length
6. They have 2 (two) lines of symmetry
7. The diagonals bisect each other



1. ***Squares***
2. Each interior angle is equal t 90o
3. All sides are equal in length
4. Opposite sides are parallel
5. The diagonals intersect at 90o
6. The diagonals bisect corner angles so that each angle is 45o
7. They have four lines of symmetry
8. The diagonals bisect each other



1. ***Parallelograms***
2. Both pairs of opposite sides are parallel
3. Opposite sides are equal in length
4. Opposite angles are equal in size
5. No line of symmetry
6. The diagonals bisect each other



1. ***Rhombuses***
2. All sides are equal
3. Opposite angles are equal in size
4. Opposite sides are parallel
5. Each diagonal bisect the corner angles
6. Diagonals intersect at 90o
7. The diagonals bisect each other
8. They have two lines of symmetry



1. ***Trapeziums***

A trapezium is a quadrilateral that has one pair of opposite sides parallel. There are two types of trapezium:

1. Isosceles trapezium
2. Non-isosceles trapezium

***Isosceles trapezium***

1. One pair of opposite sides is parallel
2. The parallel sides are not equal in length
3. They have two pairs of equal angles
4. They have equal diagonals
5. They have one line of symmetry
6. The non-parallel opposite sides are equal in length.



***Non-isosceles trapezium***

1. One pair of opposite sides is parallel
2. No line of symmetry



1. ***Kites***
2. The adjacent pairs of sides are equal in length
3. One pair of opposite angle is equal in size
4. Diagonals intersect at right angle (90o)
5. One diagonal bisects the other diagonal
6. They have one line of symmetry

