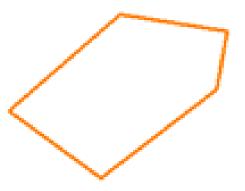


POLYGONS

WHAT IS A POLYGON?

A polygon is a plane shape with straight sides.



Polygon comes from Greek. **Poly-** means "many" and **-gon** means "angle".

TYPES OF POLYGONS

• **Regular or Irregular -** If all angles are equal and all sides are equal, then it is **regular**, otherwise it is **irregular**



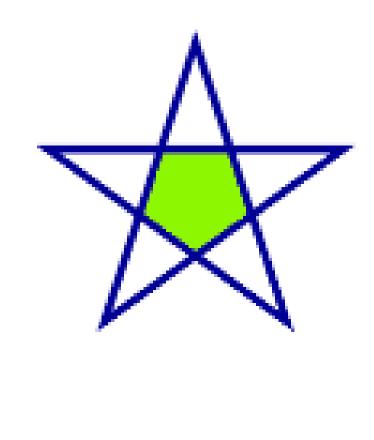
• **Concave or Convex -** If any internal angle is greater than 180° then the polygon is **concave**.

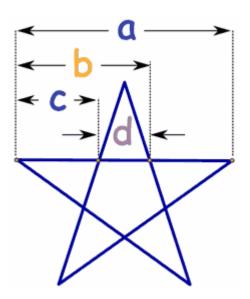
NAMES OF POLYGONS

		If it is a Regular Polygon	
Name	Sides	Shape	Interior Angle
Triangle	3	\bigtriangleup	60°
Quadrilateral	4		90°
Pentagon	5	\bigcirc	108°
Hexagon	6	\bigcirc	120°
Heptagon	7	\bigcirc	128.571°
Octagon	8	\bigcirc	135°
Nonagon	9	\bigcirc	140°
Decagon	10	\bigcirc	144°

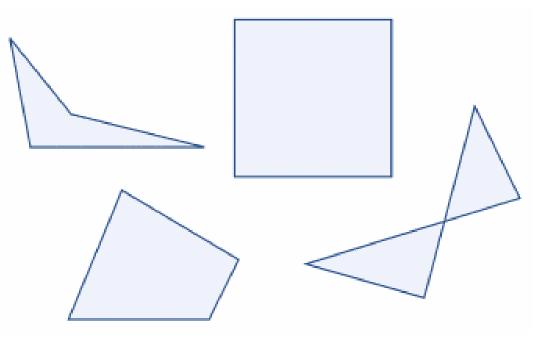
THE PENTAGRAM

The Pentagram (or Pentangle) is a 5-pointed star. Inside a Pentagram is a Pentagon.

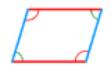




The pentagram has a special number hidden inside called the Golden Ratio, which equals approximately 1.618 Any four-sided shape is a Quadrilateral.



Types of Quadrilaterals





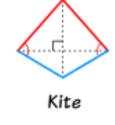




Square



Trapezoid (US) Trapezium (UK)



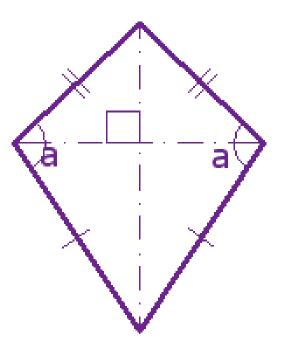
Parallelogram

Rectangle

Rhombus

THE KITE

A Kite is a flat shape with straight sides. It has 2 pairs of equal adjacent sides.



THE "FAMILY TREE" CHART

