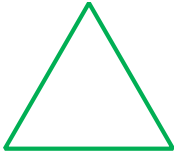
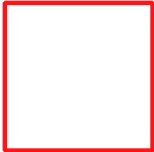
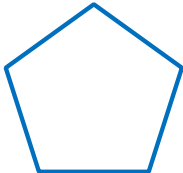
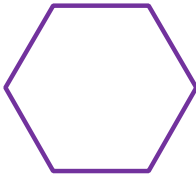
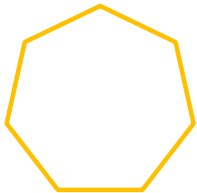
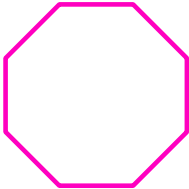
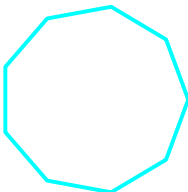
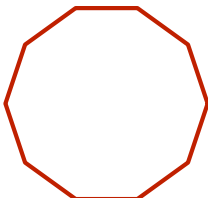


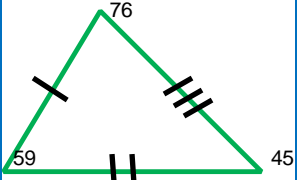
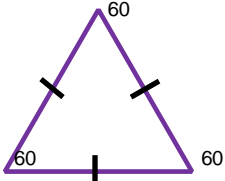
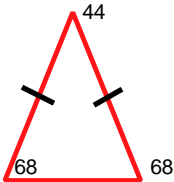
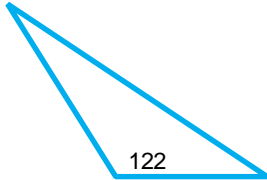
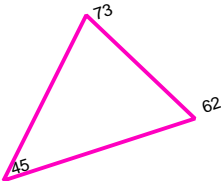
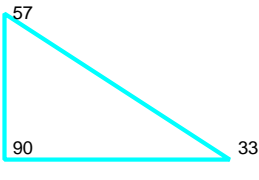


Properties of Polygons

Shape	Name	No. of Sides	No. of Angles	No. of Vertices	No. of lines of symmetry
	Triangle	3	3	3	3
	Square	4	4	4	4
	Pentagon	5	5	5	5
	Hexagon	6	6	6	6
	Heptagon	7	7	7	7
	Octagon	8	8	8	8
	Nonagon	9	9	9	9
	Decagon	10	10	10	10



Properties of Triangles

Triangle	Name	Sides	Angles	Size of interior angles
	Scalene	No sides equal	No angles equal	180 °
	Equilateral	3 equal sides	3 equal angles	180 °
	Isosceles	2 equal sides	2 equal angles	180 °
	Obtuse	Any length	1 angle $> 90^\circ$	180 °
	Acute	Any length	All angles $< 90^\circ$	180 °
	Right-angled	Any length	One angle = 90°	180 °

Remember!

Triangles are always a combination of either a **Scalene**, **Equilateral** or **Isosceles** AND an **Obtuse**, **Acute** or a **Right-angled** triangle.

A **Scalene** triangle can be either **Obtuse** or **Acute** or **Right-angled**.

An **Equilateral** triangle will always be **Acute**.

An **Isosceles** triangle can be either **Obtuse** or **Acute** or **Right-angled**.



Properties of Quadrilaterals

All Quadrilaterals have:

- ⇒ **Four** Sides
- ⇒ **Four** vertices or corners
- ⇒ Angles that add up to **360 °**

How do I know what kind of quadrilateral a shape is?



Sophie

Does it have any pair of parallel sides?

NO

Irregular quadrilaterals

YES

Does it have 2 pairs of parallel sides?

NO

Does it have 1 pair of parallel sides?

Trapezium

YES

Does it have 4 equal sides?

If it has 4 right angles:
Rectangle

If it has no right angles:
Parallelogram

NO

If it has 4 right angles:
Square

If it has no right angles:
Rhombus

YES