Name:

Back to the roots...





What is a triangle?

A triangle is one of the basic shapes of geometry. It is a **3-sided polygon**. Every triangle has **3 sides** and **3 angles**. The 3 angles always add to 180°.

TYPES OF TRIANGLES:

Equilateral, Isosceles and Scalene: We distinguish three special names given to triangles that tell how many sides (or angles) are equal.

- Equilateral Triangle: 3 equal sides and 3 equal angles (always 60°)
- Isosceles Triangle: 2 equal sides and 2 equal angles
- Scalene Triangle: no equal sides and no equal angles

Acute, Right and Obtuse: Triangles can also have names that tell you what type of angle is inside.

- Acute Triangle: all angles are less than 90°
- Right Triangle: has a right angle (90°)
- Obtuse Triangle: has an angle more than 90°

Exercise: Draw a triangle of each type in your portfolio!

Right Triangle

A <u>right-angled triangle</u> (the right angle is shown by the little box in the corner) has names for each side:

- Adjacent is adjacent to the angle,
- Opposite is opposite the angle, and
- the longest side is the Hypotenuse.

