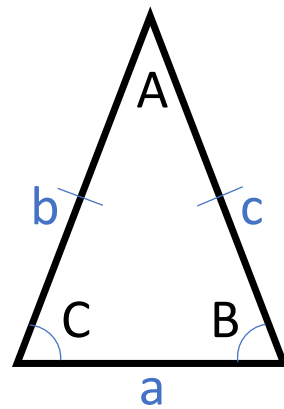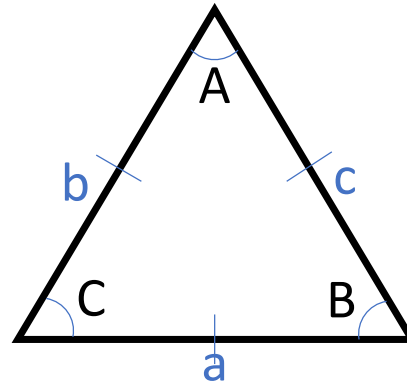**Right Angled**
a.k.a Right Triangle
One angle 90^0
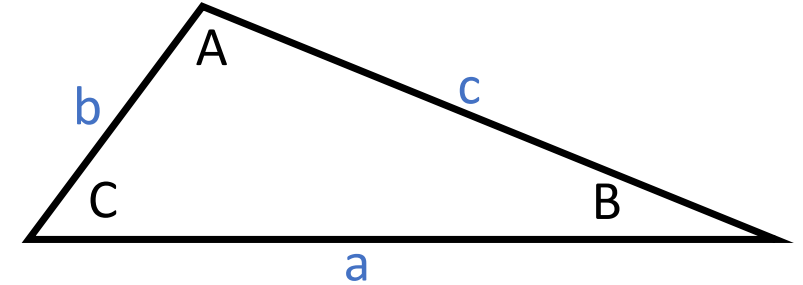
Isosceles
Two sides same length
Two angles equal

Equilateral
All sides same length
All angles 60^0

Scalene
Three sides unequal length
Three different angles

There are many mathematical laws concerning triangles, eg: how to calculate the area, side length or internal angles if you are given sufficient information to apply the "rules of trigonometry". You will come to these during your studies.

Pythagoras Theorem (Right Angled Triangles) → $c^2 = a^2 + b^2$

Sine Rule = → $\dfrac{a}{\sin A} = \dfrac{b}{\sin B} = \dfrac{c}{\sin C}$

Area = → $\dfrac{1}{2} ab \sin C$

Cosine Rule = → $a^2 = b^2 + c^2 - 2bc \cos A$