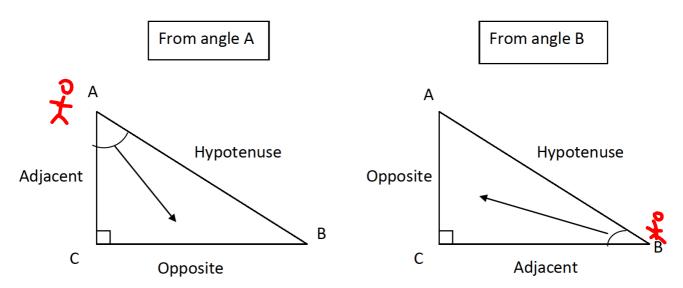
## Right Angled Trigonometry

## 1) Trigonometric Ratios

Depending on where you start from, you must name the other two sides.



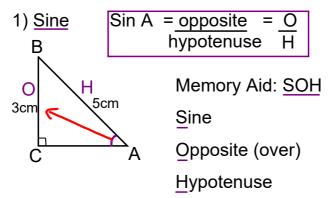
We will use the following abbreviations for naming the sides:

Hypotenuse - H

Adjacent - A

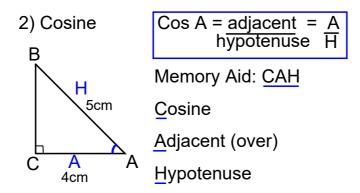
Opposite - O

There are three trigonometric ratios in right angled trig - Sine, Cosine and Tangent.



In this triangle:

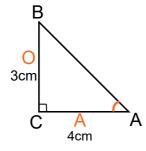
$$Sin A = \frac{3}{5}$$



In this triangle:

$$Cos A = \frac{4}{5}$$

Tan A = opposite = 
$$\frac{C}{A}$$



Memory Aid: TOA

**Tangent** 

Opposite (over)

**Adjacent** 

In this triangle:

Tan A = 
$$\frac{3}{4}$$

The key to this section is SOH, CAH, TOA!!