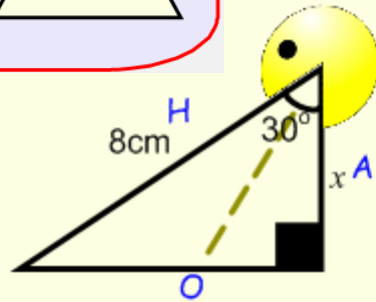
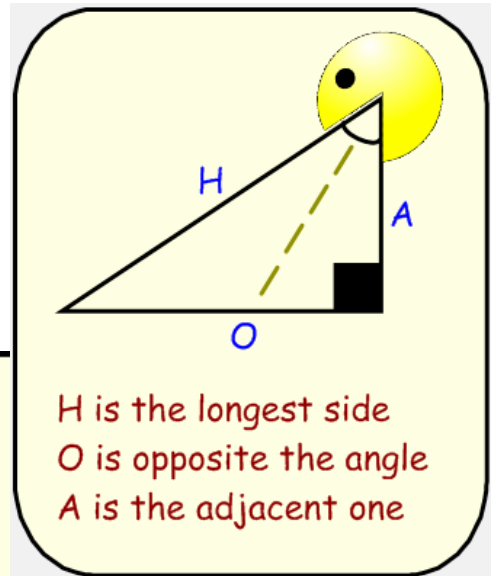
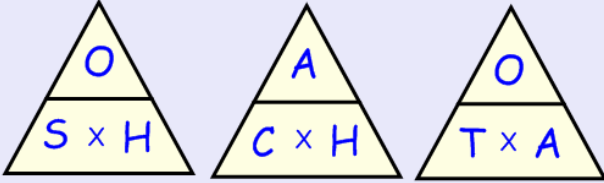
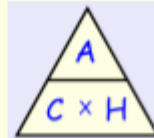


SOHCAHTOA

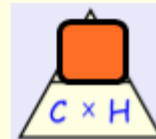
☺ The Magic Triangles ☺



We have H and A so we use

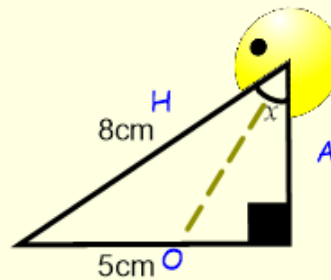


We want to find A, so we cover it over:

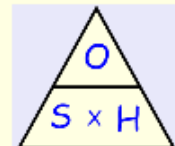


$$A = C \times H$$

$$A = \text{Cos}(30) \times 8$$



We have O and H so we use:



This time we want to find the angle (the angle always goes with Sin, Cos or Tan) so we cover S



$$\text{Sin}(x) = \frac{5}{8}$$

$$x = \text{Sin}^{-1}\left(\frac{5}{8}\right)$$

$$x = 38.7^\circ \text{ (3sf)}$$