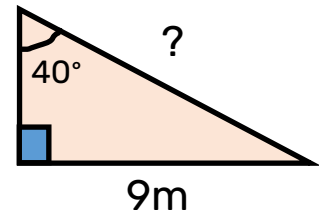
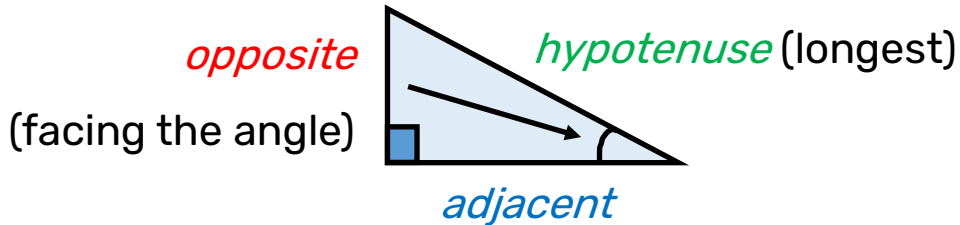


Robot Maths - Trigonometry (finding sides)

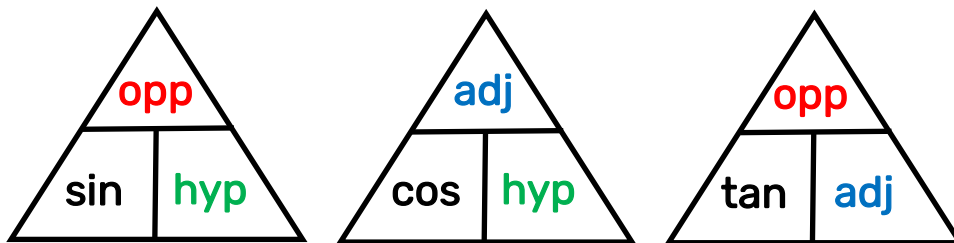
We can use trigonometry to work out a missing length of a right-angled triangle.



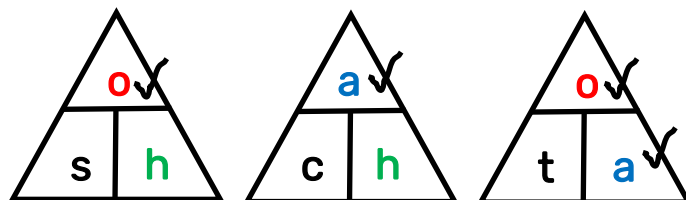
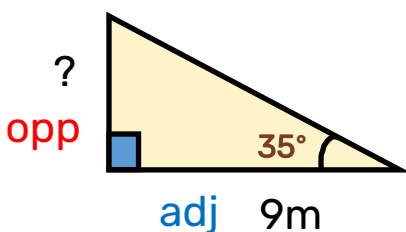
1) Label the sides - opposite, adjacent, hypotenuse



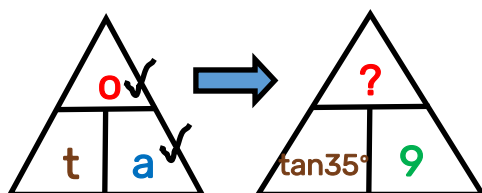
2) Write down the 3 formula triangles



3) Tick the side that you have and the side you want to find out



4) Choose the formula triangle with 2 ticks and fill in the numbers



5) Do the calculation, round sensibly and use the correct units

$$\tan 35^\circ \times 9 = 6.301\dots = 6.3\text{m}$$

