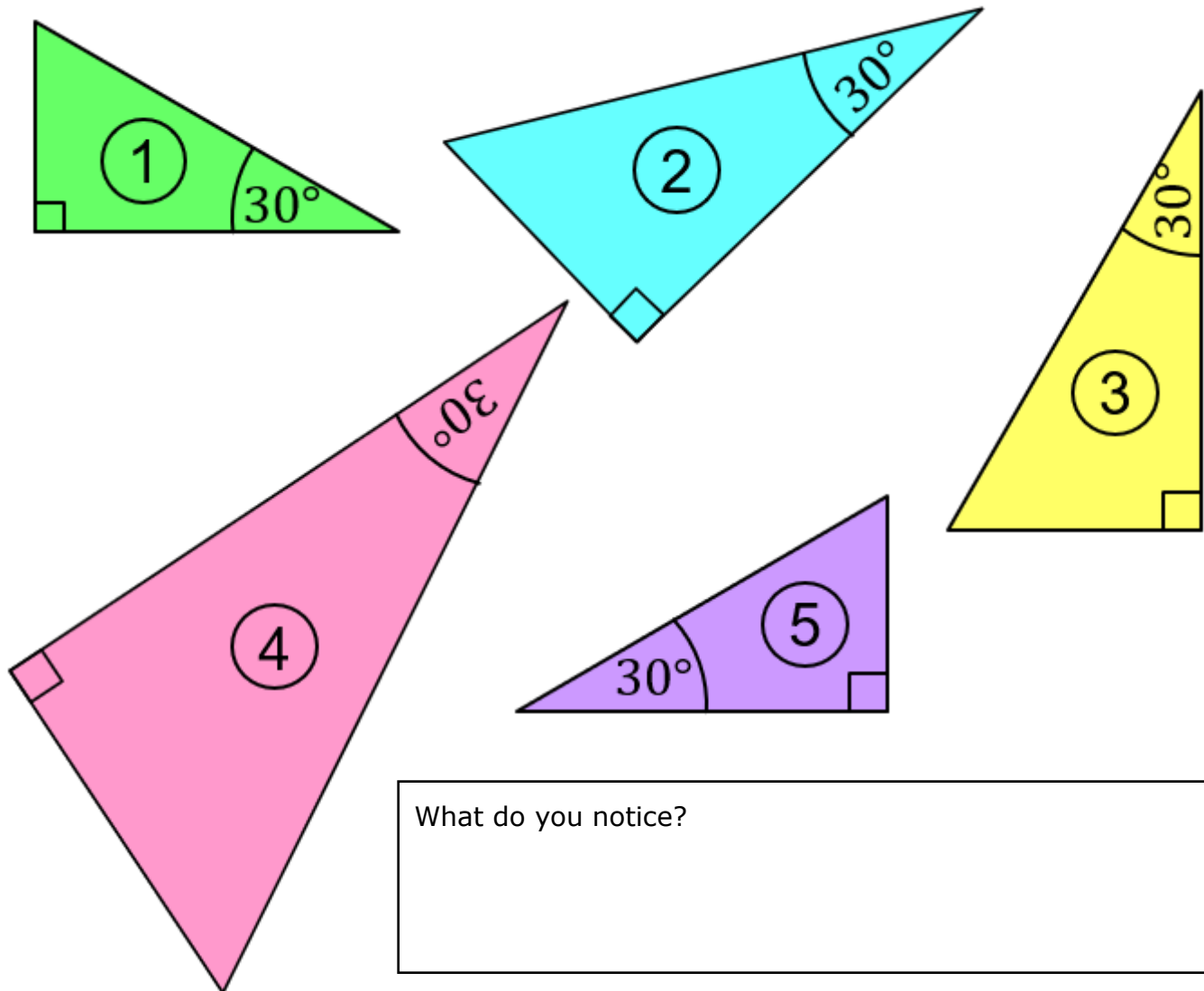


Investigating Similar Triangles

The five triangles drawn are similar right-angled triangles. This means that they have the same set of three angles, in this case 30° , 60° and 90° .

- (a) Label the sides of each triangle – H for hypotenuse, O for opposite and A for adjacent.
- (b) Measure the lengths of each of the sides to the nearest mm, and fill into the table.
- (c) Calculate the ratio of each pair of lengths using your calculator, to 2 decimal places.



Triangle	Opposite (mm)	Adjacent (mm)	Hypotenuse (mm)	$\frac{\text{Opposite}}{\text{Hypotenuse}}$	$\frac{\text{Adjacent}}{\text{Hypotenuse}}$	$\frac{\text{Opposite}}{\text{Adjacent}}$
1						
2						
3						
4						
5						