**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 and .

(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.

Shape

Description automatically generatedA picture containing text, clipart

Description automatically generated

A yellow triangle with numbers

Description automatically generated with low confidence

Shape

Description automatically generated

A close-up of a logo

Description automatically generated with medium confidence

What do you notice?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Triangle |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |