Definition of congruency

A triangle (or indeed any two dimensional shape) is deemed congruent to another if it has the same shape and the same size.

The second triangle can be rotated, reflected or translated in any way.

The first triangle must be able to fit over the second triangle exactly.

## two sides + the included angle

are common to both


## all three sides are common to both triangles


two angles and a side are common to both triangles


Tests for congruency - Right angle Hypotenuse and one Side (RHS)
right-angle and the hypotenuse + one other side
are common to both


