

MATHEMATICS



Topic: Similar and Congruent shapes

Similar

When two shapes are similar, one shape is an enlargement of the other shape. We use the symbol \sim to show that two shapes are similar. For two shapes to be similar these conditions must be met:

1. All three corresponding angles are equal.
2. The length of the corresponding sides are in proportion.



Congruent

When two shapes are congruent they are identical in shape and can fit into each other.

There are four possible cases for two triangles to be congruent:

1. Three sides equal (SSS)
2. Two sides and the included angle (SAS)
3. Two angles and a corresponding side (SAA)
4. Right angle, hypotenuse and side (RHS)



Exercises

Exercise 11.5

- 1.
- 2.
- 3.

Exercise 11.6

- 1.
- 2.
- 3.
- 4.