YEAR 9 - SIMILARITY...

@whisto_maths

Congruence, similarity & enlargement

What do I need to be able to do?

By the end of this unit you should be able

- Enlarge by a positive scale factor
- Enlarge by a fractional scale factor
- Identify similar shapes
- Work out missing sides and angles in similar shapes
- Use parallel lines to find missing angles
- Understand similarity and congruence

Keywords

Enlarge: to make a shape bigger (or smaller) by a given multiplier (scale factor)

Scale Factor: the multiplier of enlargement

Centre of enlargement: the point the shape is enlarged from

Similar: when one shape can become another with a reflection, rotation, enlargement or translation.

Congruent: the same size and shape

Corresponding: items that appear in the same place in two similar situations

Parallel: straight lines that never meet (equal gradients)

Positive scale factors Enlargement from a point Enlarge shape A by SF 2 from (0,0) The shape is enlarged by 2 The distance from the point enlarges by 2









