# Year 10 Mathematics Learning Journey: Unit 6 - Congruence, Similarity and Enlargement

**Step 1 (R): Positive scale factors**

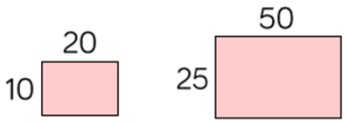
When a shape is enlarged, do the angles stay the same or change?

**Step 2 (R): Fractional scale factors**

Do fractional scale factors always make the shape smaller?

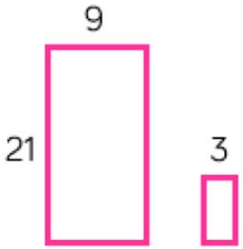
**Step 3: Identify similar shapes**

Explain how you know these two shapes are similar?




**Step 4: Calculating sides and angles in similar shapes**

Find the scale factor for these two similar shapes and the missing length.

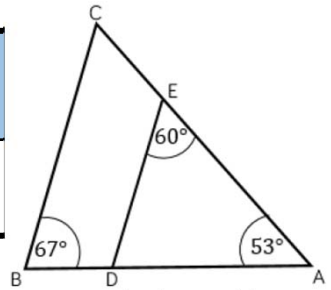



**Step 5 (R): Angles in parallel lines**

How many parallel line angle rules can you recall?

**Step 6: Establish triangles are similar**

Is triangle ABC similar to ADE?




**Step 7: Congruence and similarity**

If you know two shapes are congruent, what else do you know about the shapes?

**Step 8: Conditions for congruent triangles**

Does it matter which two angles and sides are given for the angle-side-angle condition to be true?

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