

Apply the enlargement transformation to shapes and objects using dynamic...

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Learning intention

- apply the enlargement transformation to shapes and objects using dynamic geometry software as appropriate; identify and explain aspects that remain the same and those that...

Teach and model

- comparing the ratio of lengths of corresponding sides of similar triangles and angles
- using the properties of similarity to solve problems involving enlargement
- investigating and generalising patterns in length, angle, area and volume when side lengths of shapes and objects are enlarged or dilated by whole and rational numbers; for...

Check understanding

- Explain the main idea in apply the enlargement transformation to shapes and objects using dynamic... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.