

Mathematics

Enlargement by an integer scale factor

Lesson 1 of 8

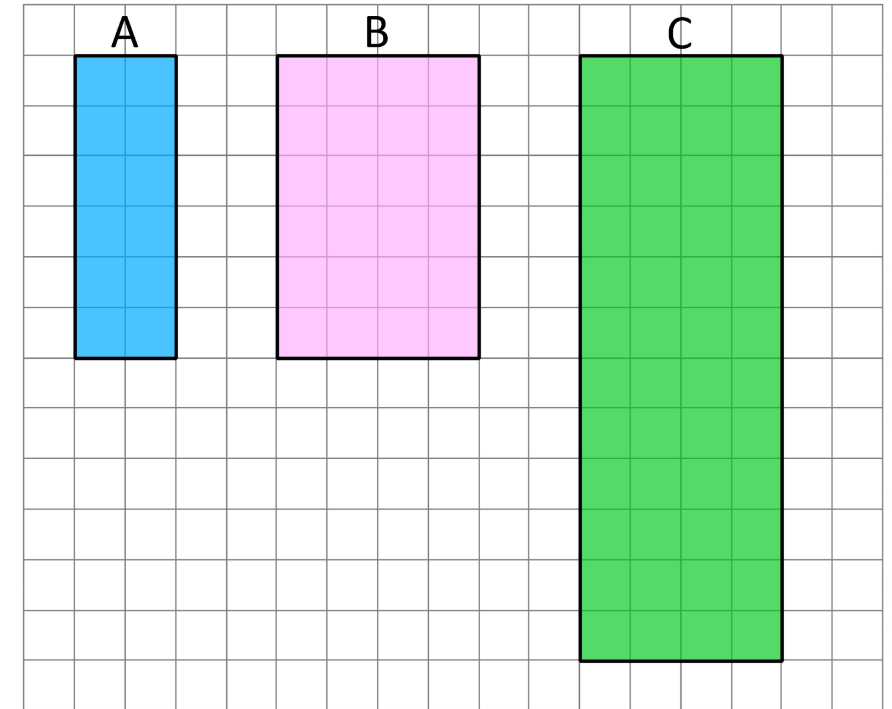
Downloadable Resource

Miss Kidd-Rossiter



Try this

What's the same and what's different?



Support on next slide

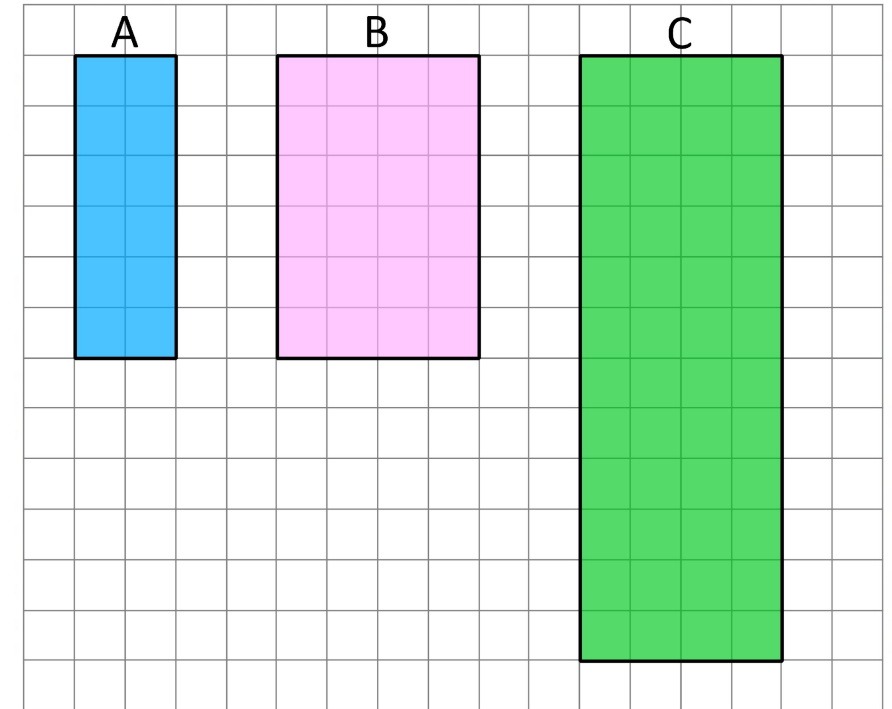


Try this

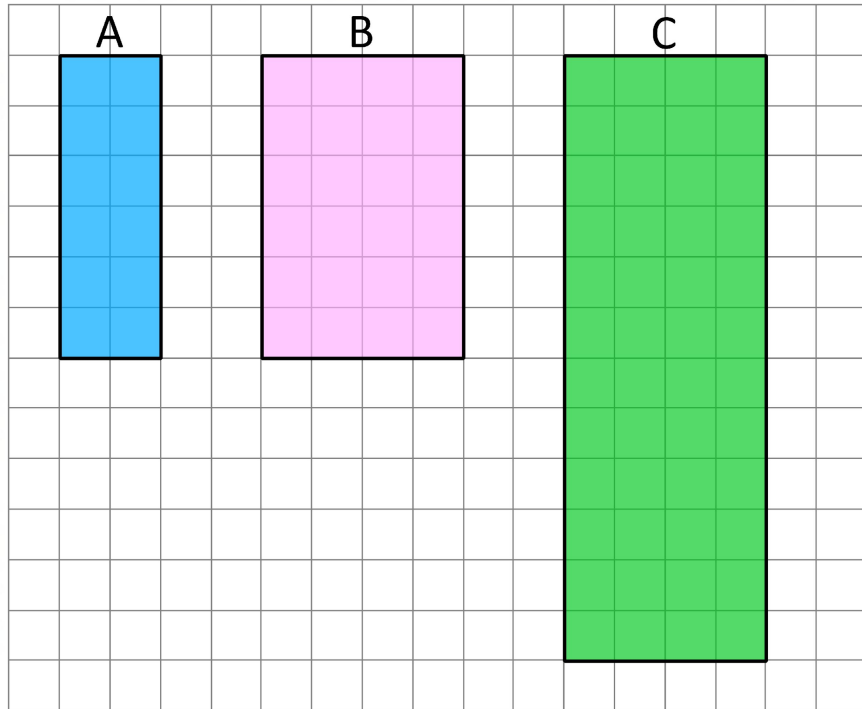
What's the same and what's different?

Hint - what's the same/different about the:

- Angles
- Side lengths



Connect



One shape is an enlargement of another if

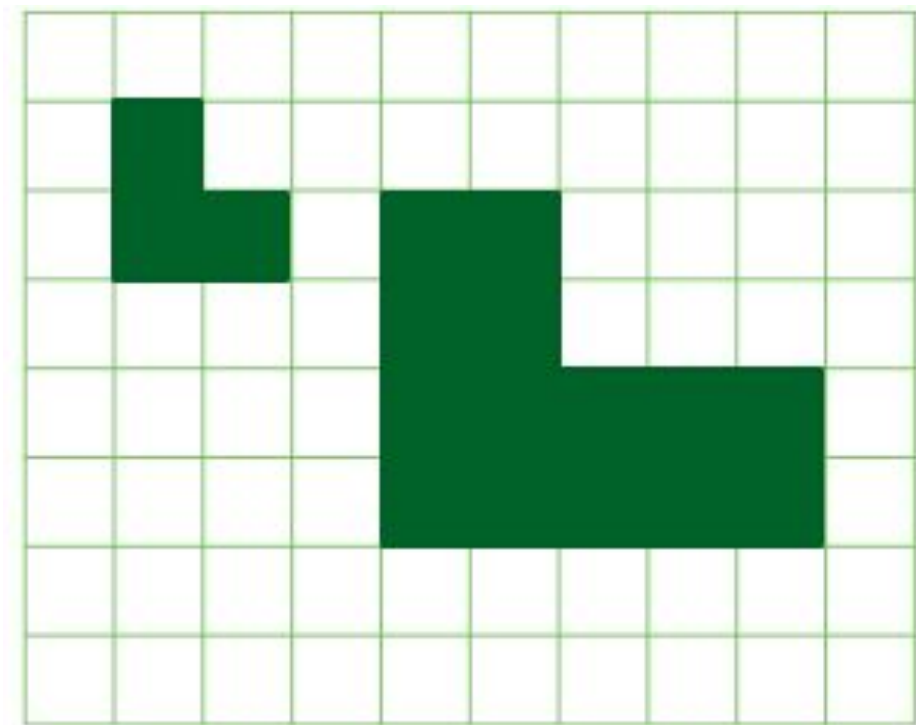
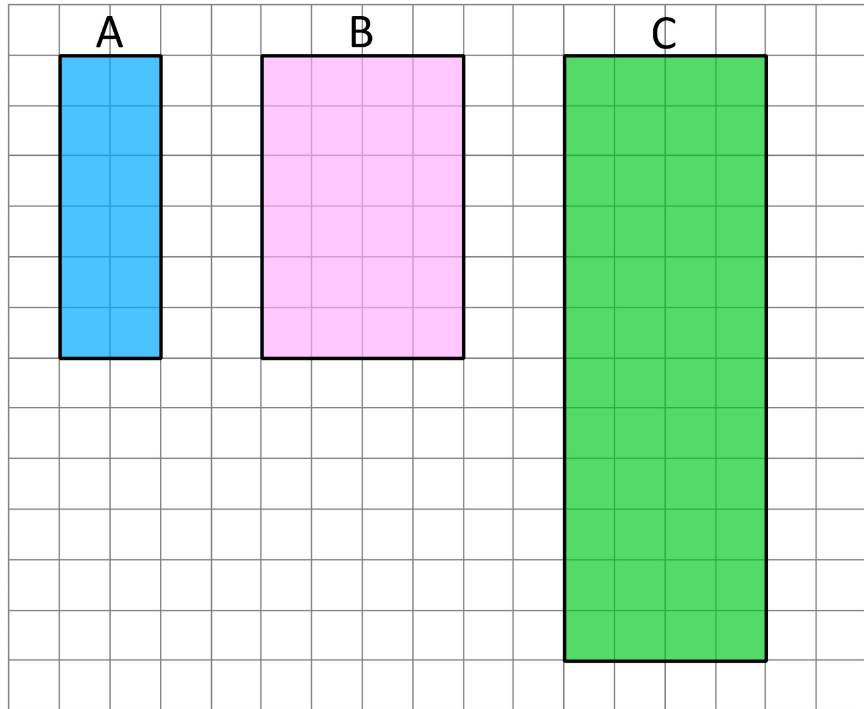
- The same scale factor can be used to multiply the lengths of each side of the original shape to give the lengths of each corresponding side of the enlarged shape.

and

- The angles of both shapes are the same.



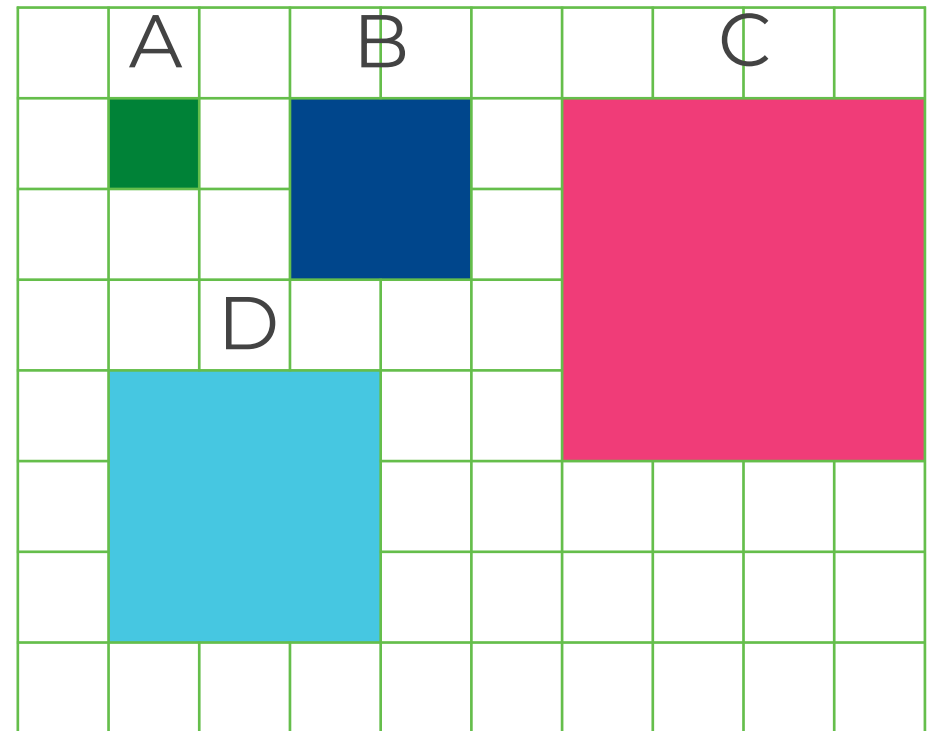
Connect



Independent task

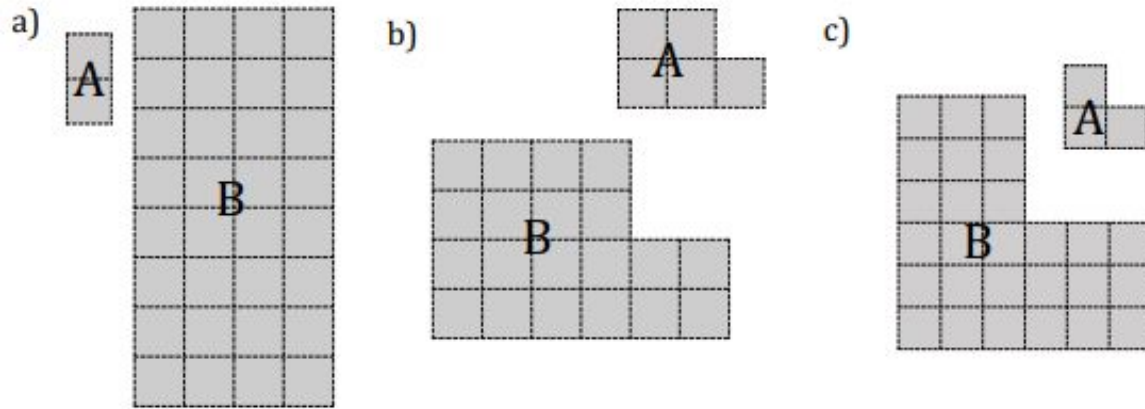
1. The below shapes have been enlarged. What scale factor have they been enlarged by?

- a) A is the object, B is the image
- b) A is the object, C is the image
- c) A is the object, D is the image
- d) B is the object, C is the image



Independent task

2. State the scale factor of enlargement for each of the following transformations from A to B.

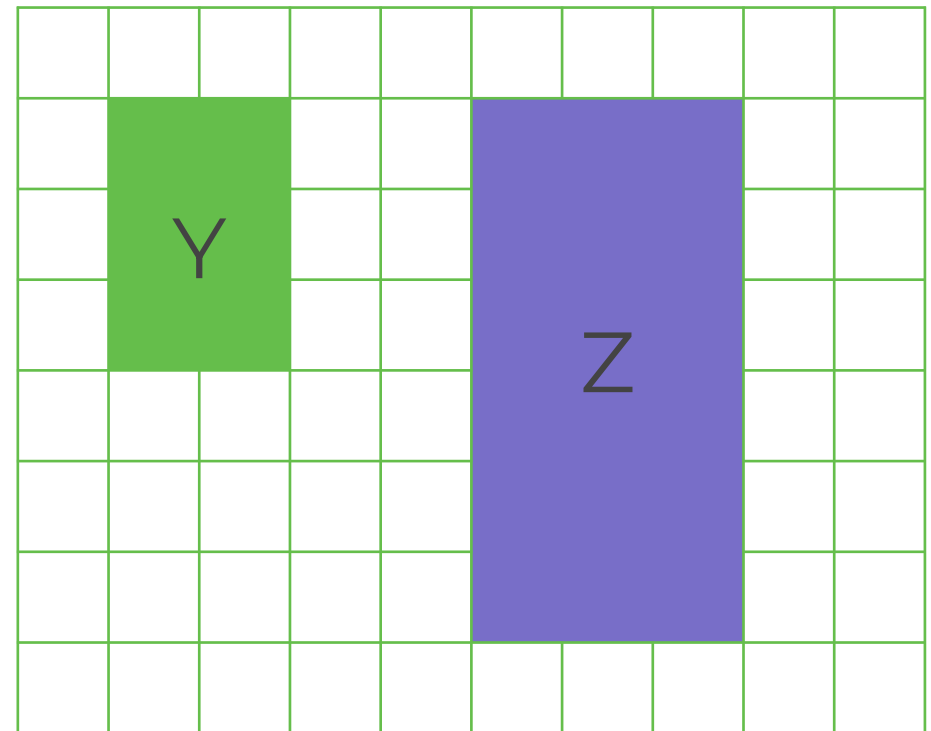


3. Find the perimeters of each of the shapes in Q2. What do you notice?



Independent task

4. Explain why Z is **not** an enlargement of Y



Explore

Draw a copy of the purple pentagon onto squared paper

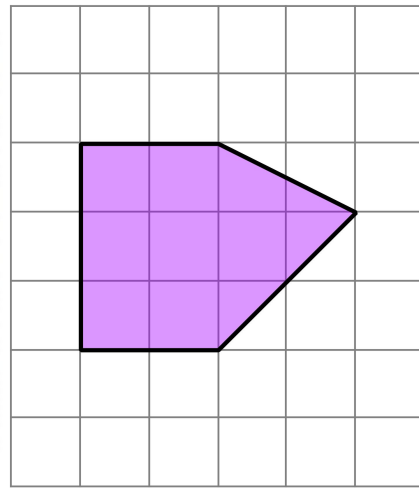
Draw enlargements of the pentagon with the following scale factors:

scale factor 2?

scale factor 3?

scale factor 4?

scale factor n ?



What is the area of the enlarged shape?

What do you notice?

