Mathematics

## Enlargement by a non-integer scale factor Lesson 2 of 8 <br> Downloadable Resource

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## Try this

Which of the shapes on the grid are enlargements of each other?


Hint on next slide, if needed

## Try this

Which of the shapes on the grid are enlargements of each other?

Hints:

- Has the same scale factor been used to multiply the lengths of each side?
- Are any of them non-integer enlargements?



## Connect

> The object has been enlarged by a scale factor of 2.5 to give the image.

> The object has been enlarged by a scale factor of $\frac{2}{5}$ to give the image.


## Independent task

1. Which of the shapes on the grid are enlargements of each other, what are the scale factors of enlargement?


## Independent task

2. Identify the triangles that are not enlargements of the triangles marked $X$. Give reasons for your choices.


## Independent task

3. The shape below is enlarged by different scale factors. On squared paper draw an image of enlargement for each of the below scale factors.


## Explore

Draw your own shape like the one shown in the grid
a)Enlarge by scale factor $\frac{1}{2}$ then enlarge the new shape by a scale factor of 2
b)Enlarge by a scale factor of $\frac{2}{3}$, then enlarge the new shape by a scale factor of 1.5

What do you notice? Can you come up with similar
 pairs of numbers that have the same effect?

