# Area of similar shapes Lesson 8 of 8 <br> Downloadable Resource 

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## Try this

Enlarge the shape by scale factor 2

Enlarge the shape by scale factor 3

Enlarge the shape by scale factor 2.5

What happens to the area?


## Connect

These shapes are similar.


What is the scale factor of enlargement?
Work out the areas. What do you notice?

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## Independent task

1. Rectangle $A B C D$ is similar to rectangle EFGH.
a. Calculate the length of BC.
b. Calculate the area of both rectangles.

c. What is the scale factor between the areas of $A B C D$ and $E F G H$ ?

## Independent task

2. Triangle $A B C$ is similar to triangle DEF and triangle GHI.
a. What is the scale factor that $A C$ is multiplied by to give DF?
b. What is the scale factor that the area of $A B C$ is multiplied by to give the area of $D E F$ ?
c. What are the areas of DEF and GHI?

## Explore

Copies of shapes


Are the shapes similar? What is the relationship between the area?
Can you use 9 copies of the shape?
Can you use 16 copies of the shape?
Draw your own shape.

