# Similar Triangles Lesson 6 of 8 <br> Downloadable Resource 

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## Try this

Describe the relationship between
i) $A B$ and $B C$ ii) $A B$ and $A C$ iii) $A C$ and $B C$


Enlarge the triangle by scale factor 2, 3.5, 0.5.
What do you notice about the relationships between the three sides?

## Connect



What's the same?
What's different?

## Independent task

1. Which triangles are similar to A?


## Independent task

2. Triangle ABC and DEF are similar.
a. Triangle DEF is an enlargement of triangle $A B C$. What is the scale factor of this enlargement?
b. Work out the length of the side EF.
C. What is the length of the side
 AC?

## Independent task

3. These triangles are similar. Work out the value of $w$.


## Explore

> If you enlarge any shape by any scale factor you end up with two similar shapes

Is the student correct? How do you know?


