


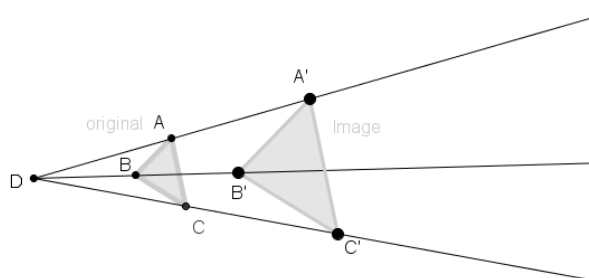
## Student Activity Enlargements 1

Use in connection with the interactive file “Enlargements 1” on the Student’s CD.

$g = 2$



Move the slider  $g$ , which represents the enlargement factor and watch the image



1. What point is the centre of enlargement in the interactive file?

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2. When  $g=3$  complete the table by measuring the lengths on the screen with a ruler.

AB		AC		BC	
A'B'		A'C'		B'C'	

3. Do you notice any relationship between the corresponding sides in Question 2 and if so what is the relationship?

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4. Now move the slider in the interactive file to  $g=4$  and complete the table.

AB		AC		BC	
A'B'		A'C'		B'C'	

What relationship did you notice between the corresponding sides?

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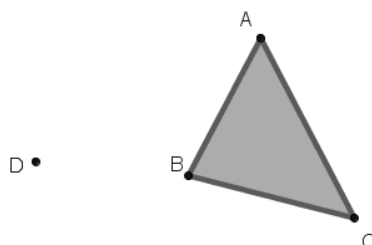
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5. When  $g$  the enlargement factor is 1, what happens to the image?

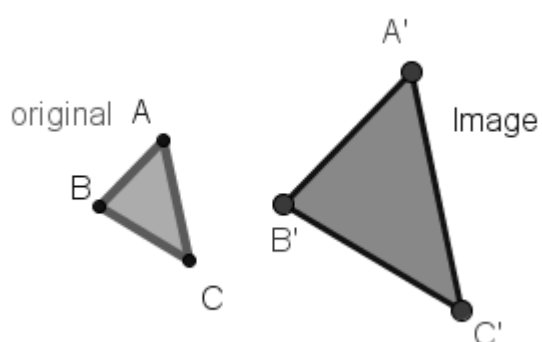
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Note questions 6, 7 and 8 do not need the interactive file.

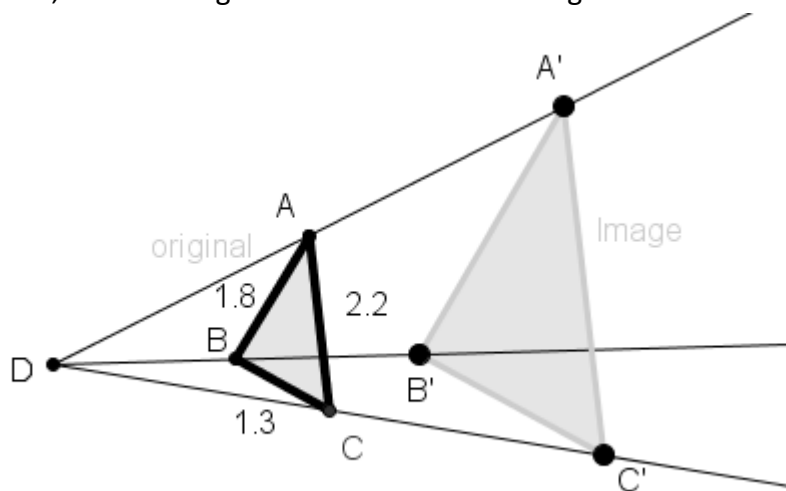
6. Find the image of the triangle ABC under an enlargement with D as centre and a scale factor of 2.



7. Find the centre of enlargement, if  $A'B'C'$  is the image of ABC under an enlargement.



8. If the scale factor is 2, find the lengths of the sides of the image:



AB	1.8	$A'B'$	
BC	1.3	$B'C'$	
AC	2.2	$A'C'$	