Investigating Properties   
 of Similar Shapes

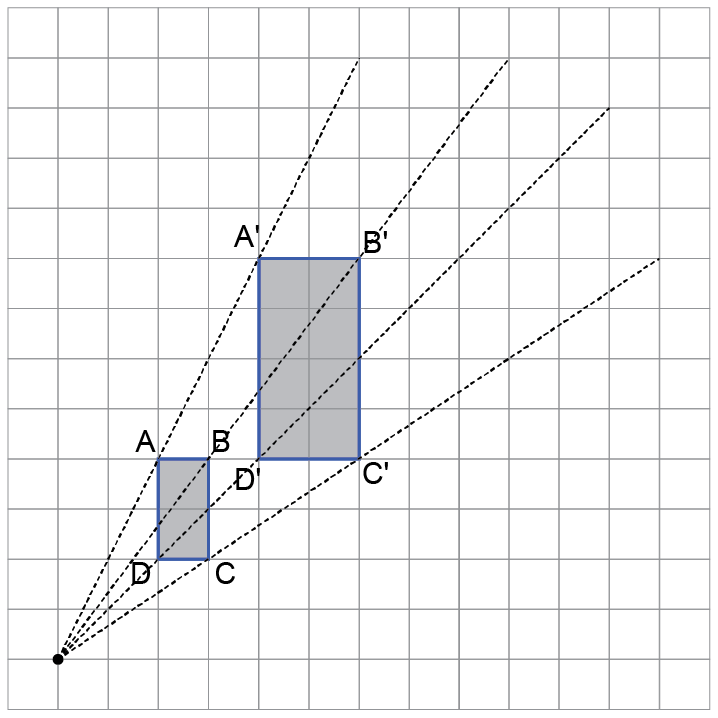
**Geometry**

**Unit 1 Line Master 6a**

1. Determine the scale factor that was used to dilate   
 the original shape.   
 Compare the properties of each pair of similar shapes.

What properties do dilations seem to have? Make a list.

a)



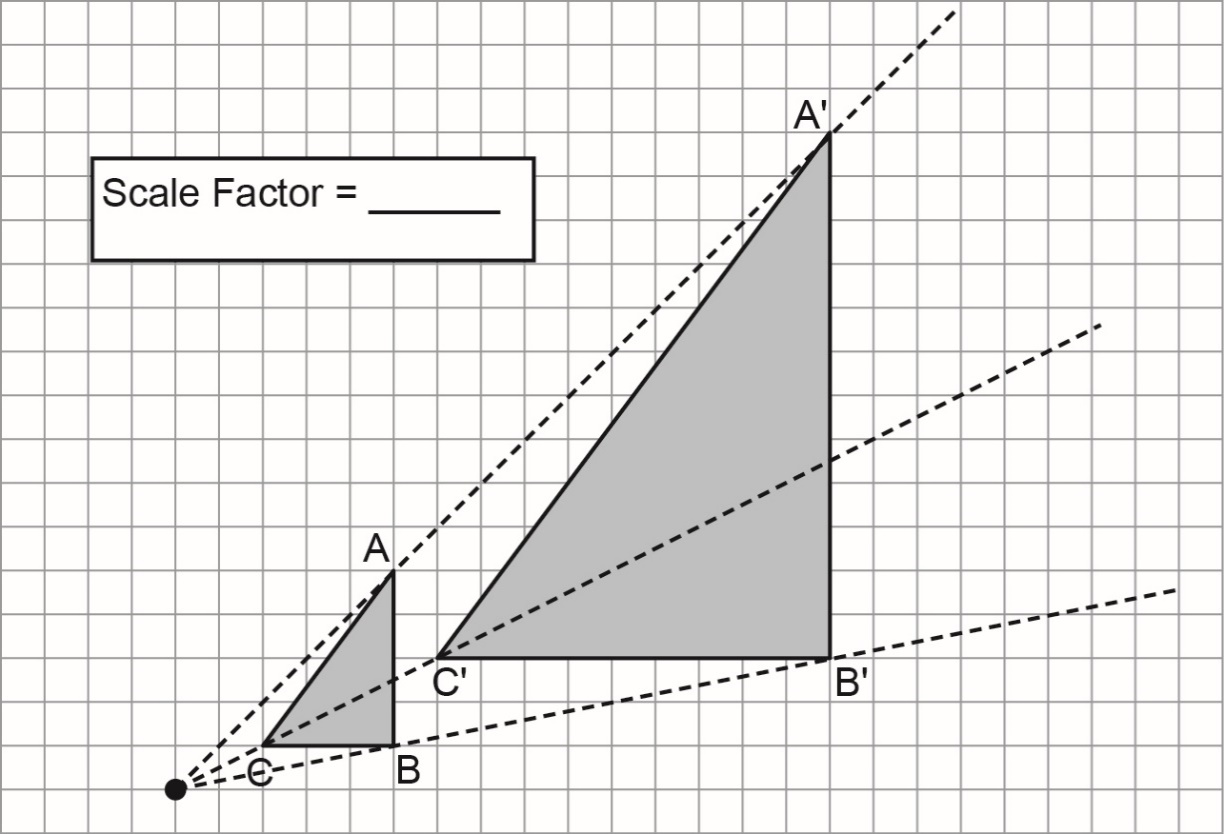
dilation point

Scale Factor = \_\_\_\_\_\_\_

Investigating Properties   
 of Similar Shapes (cont’d)

**Geometry**

**Unit 1 Line Master 6b**

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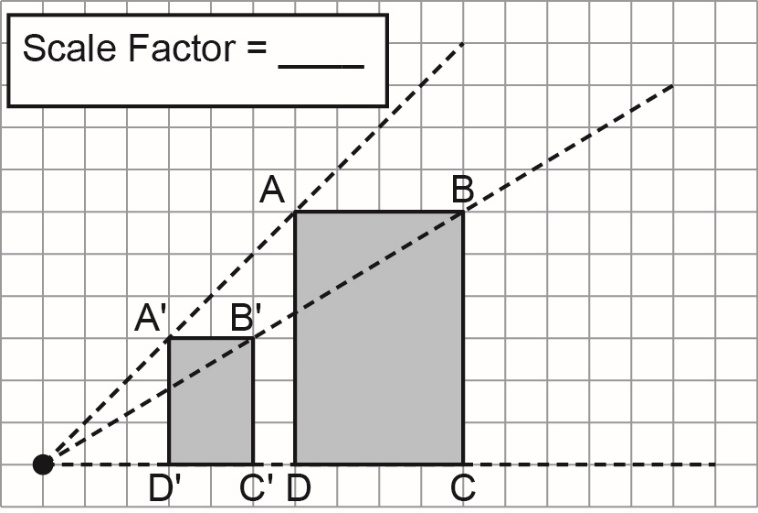
b)

dilation point

Investigating Properties   
 of Similar Shapes (cont’d)

**Geometry**

**Unit 1 Line Master 6c**

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c)

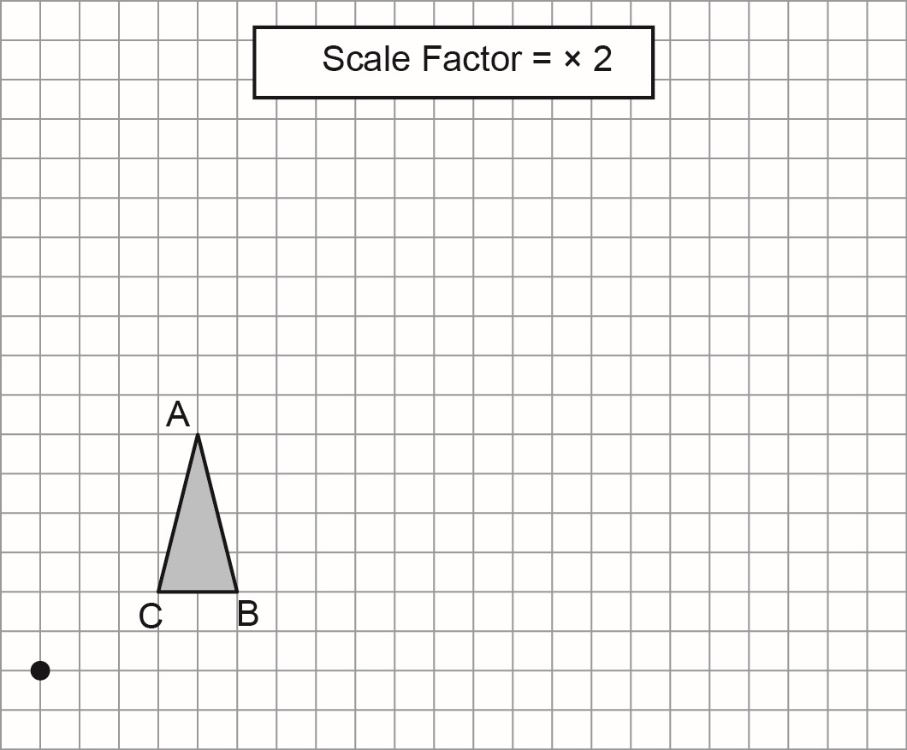
dilation point

Investigating Properties   
 of Similar Shapes (cont’d)

**Geometry**

**Unit 1 Line Master 6d**

2. Use the scale factor and the dilation point to create a dilation   
 of the triangle. Check to see if the properties you found in   
 Question 1 hold true for your dilation.



dilation point