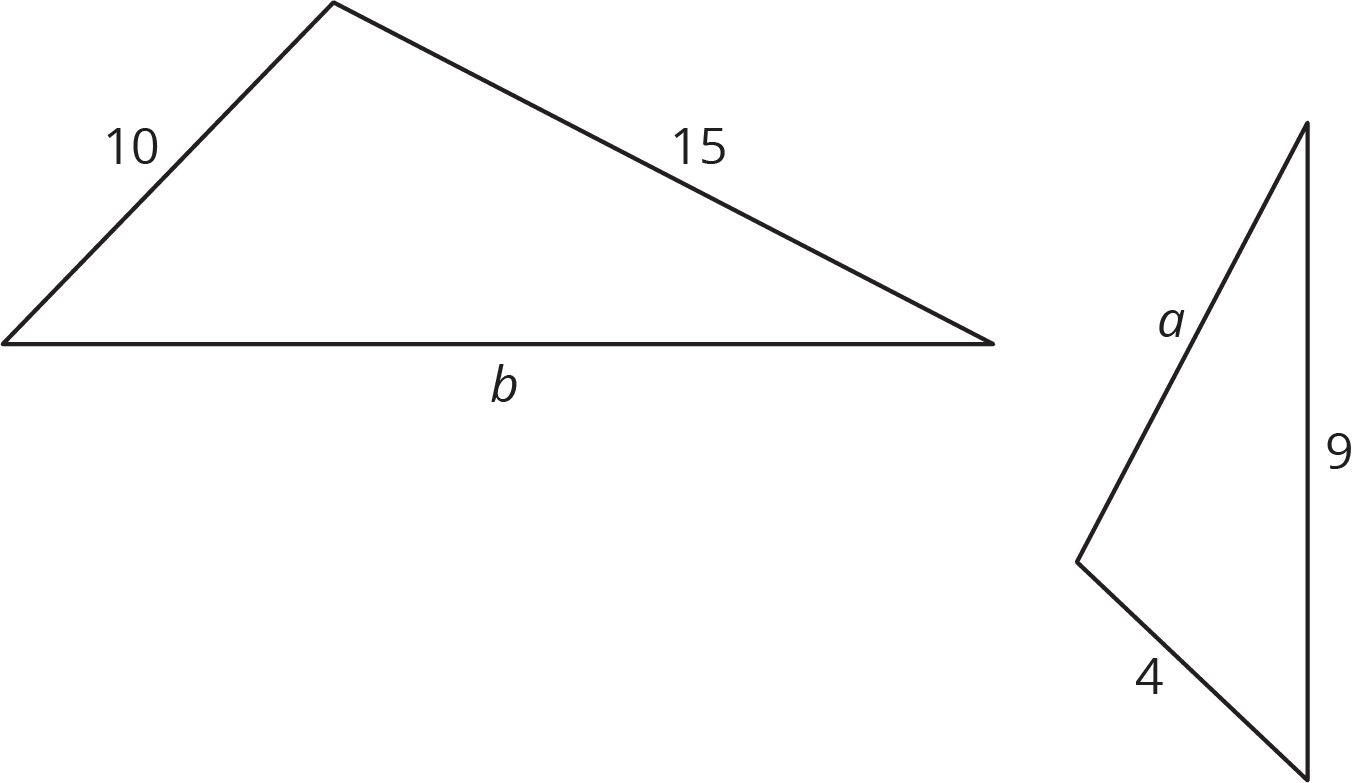
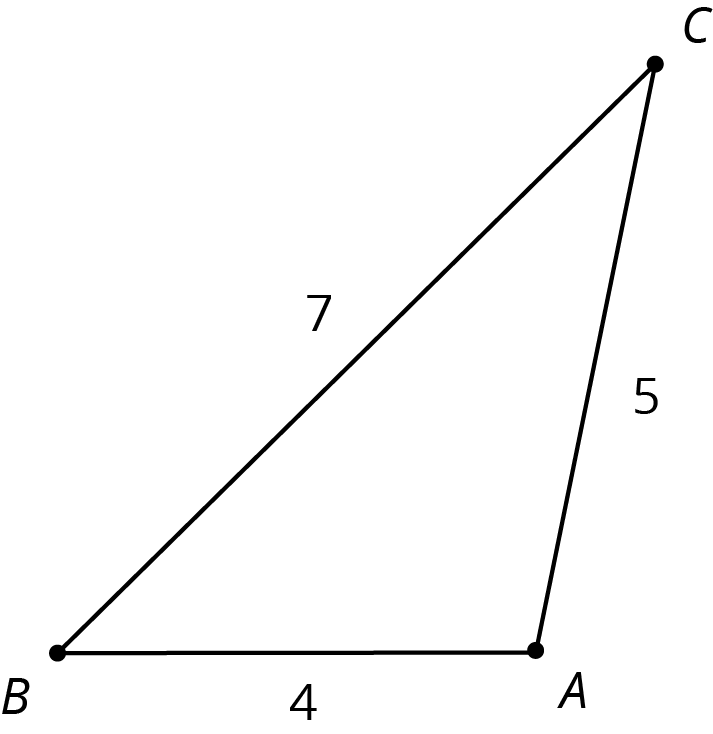
### Lesson 9 Practice Problems

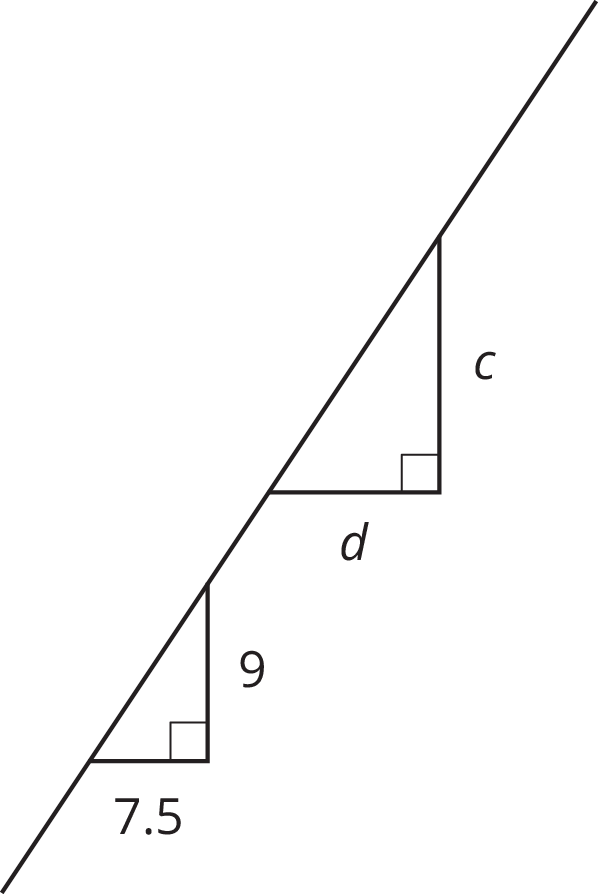
1. These two triangles are similar. What are and ? Note: the two figures are not drawn to scale.

* 

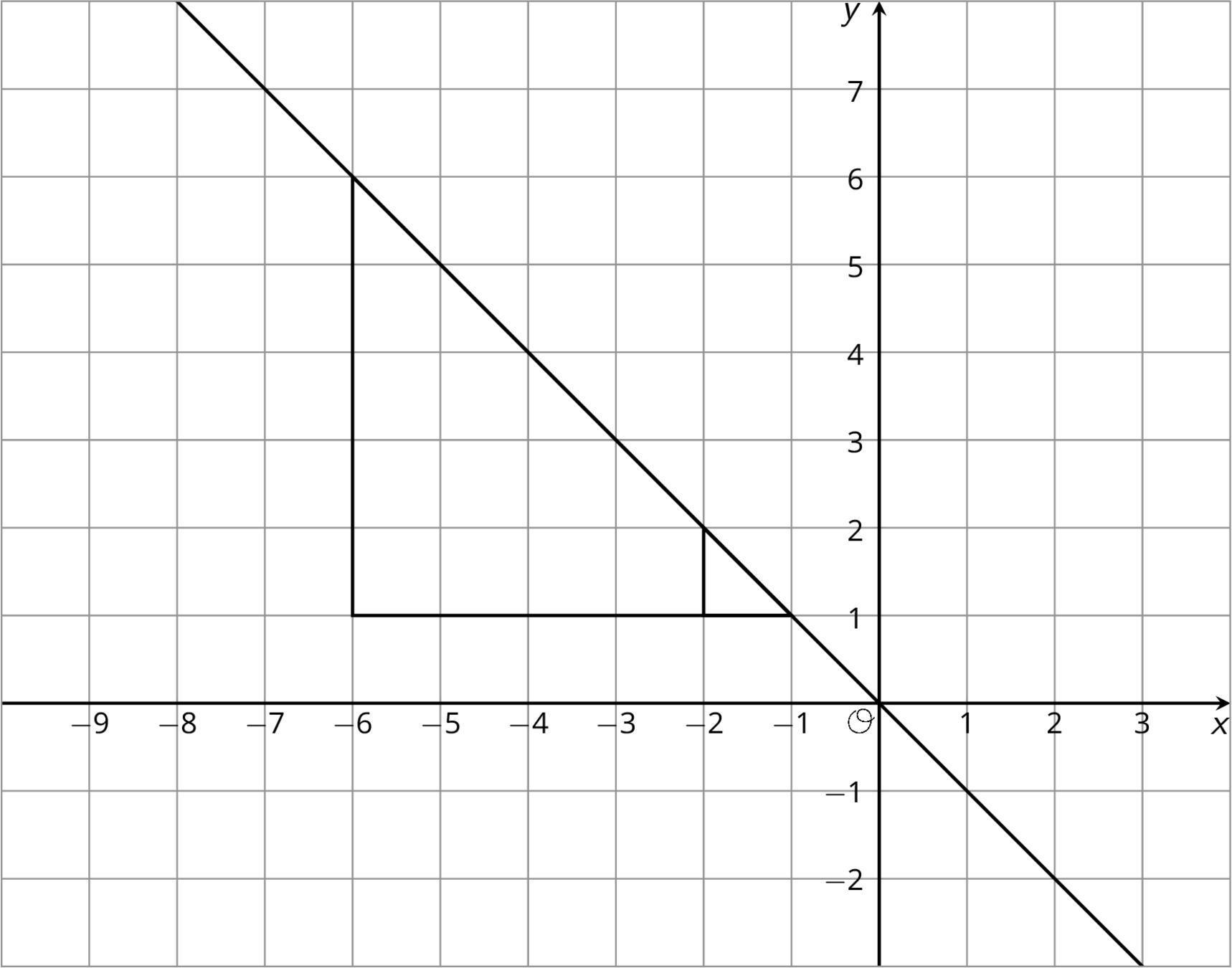
1. Here is triangle . Triangle is similar to with scale factor .

* 
  1. Draw what triangle might look like.
  2. How do the angle measures of triangle compare to triangle ? Explain how you know.
  3. What are the side lengths of triangle ?
  4. For triangle , calculate (long side) (medium side), and compare to triangle .

1. The two triangles shown are similar. Find the value of .

* 

1. The diagram shows two nested triangles that share a vertex. Find a center and a scale factor for a dilation that would move the larger triangle to the smaller triangle.

* 
* (From Unit 2, Lesson 5.)



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