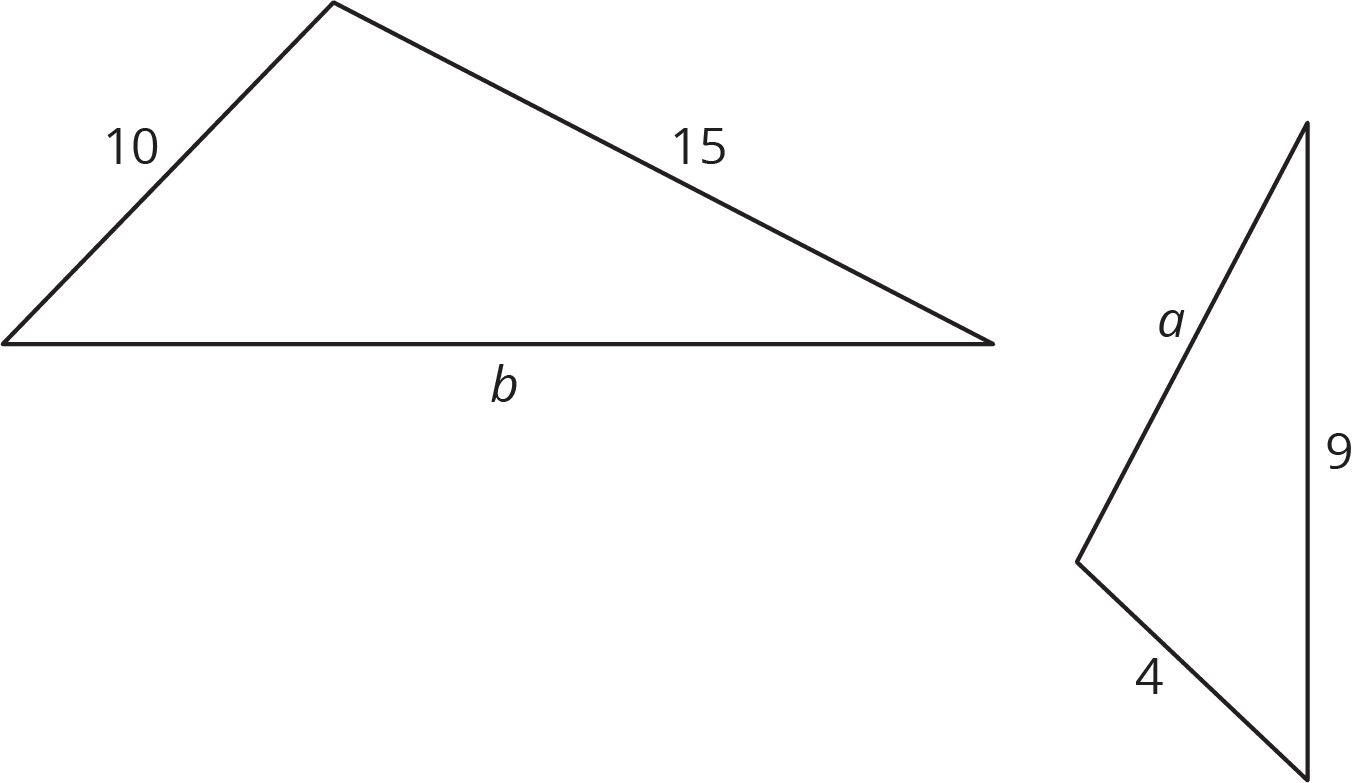
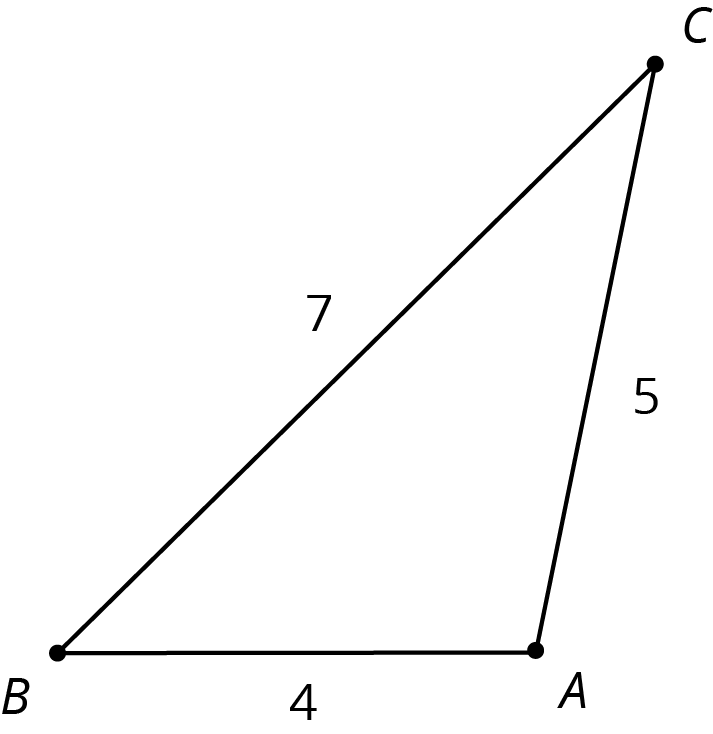
### Lesson 14 Practice Problems

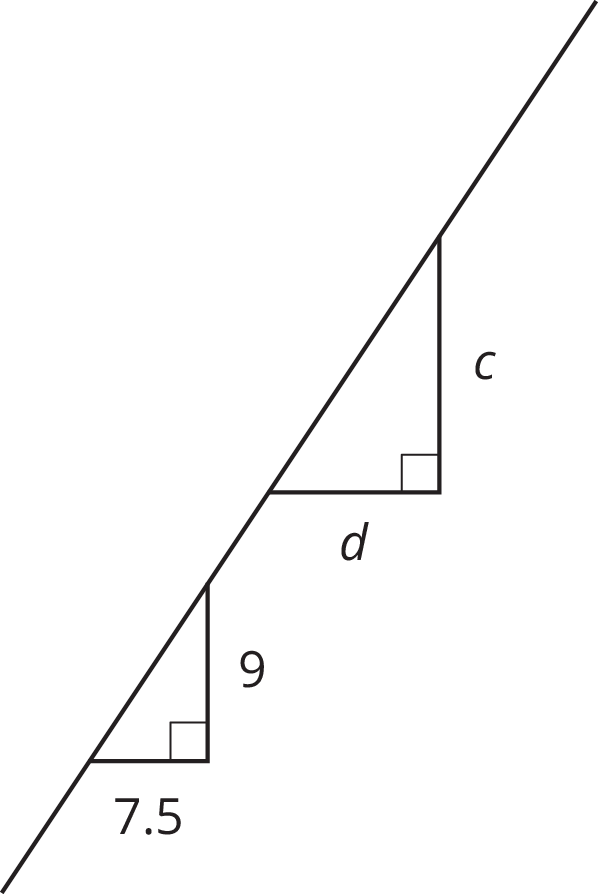
1. These two triangles are similar. What are and ? Note: the two figures are not drawn to scale.

* 

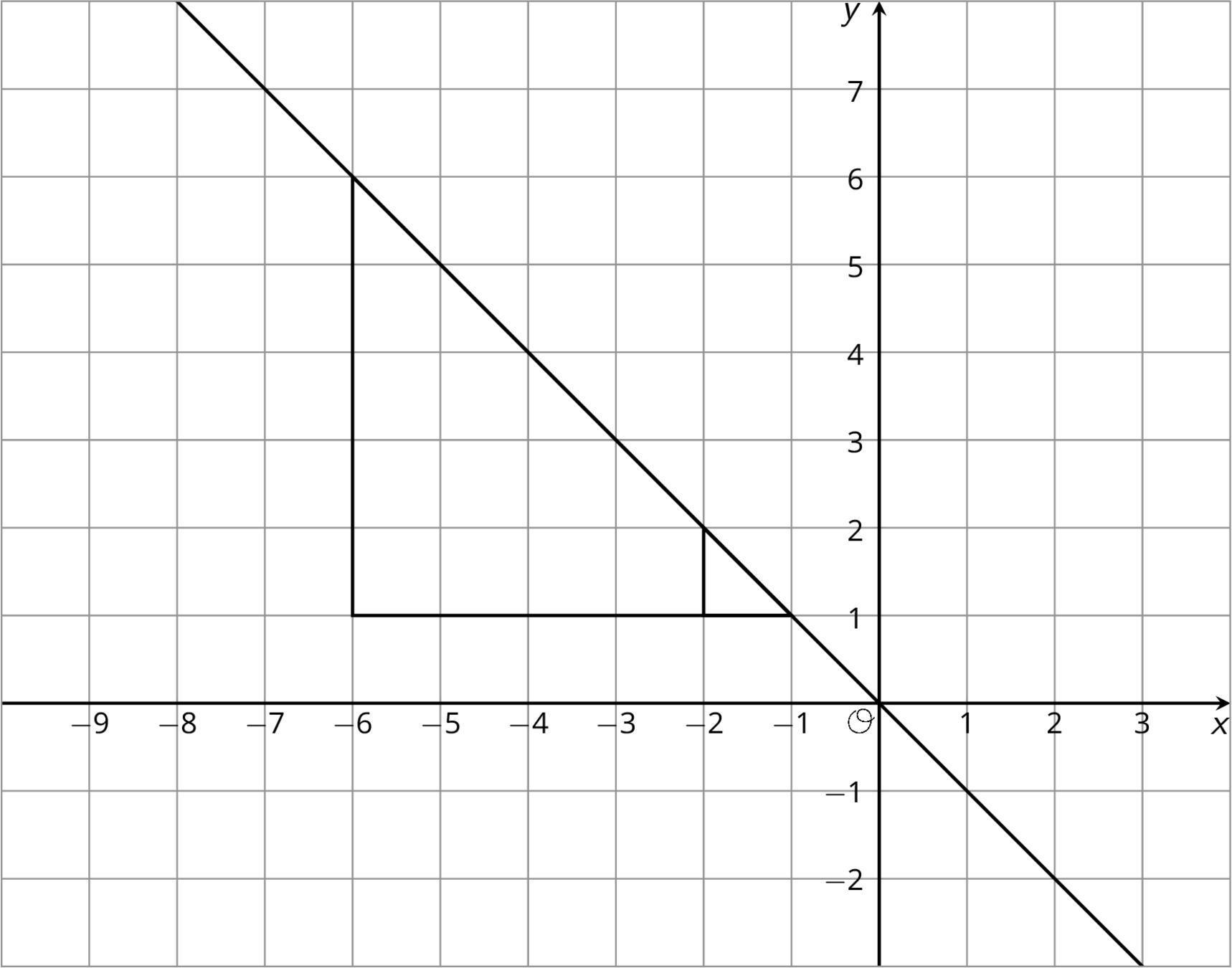
1. Here is triangle . Triangle is similar to with scale factor .

* 
  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 .

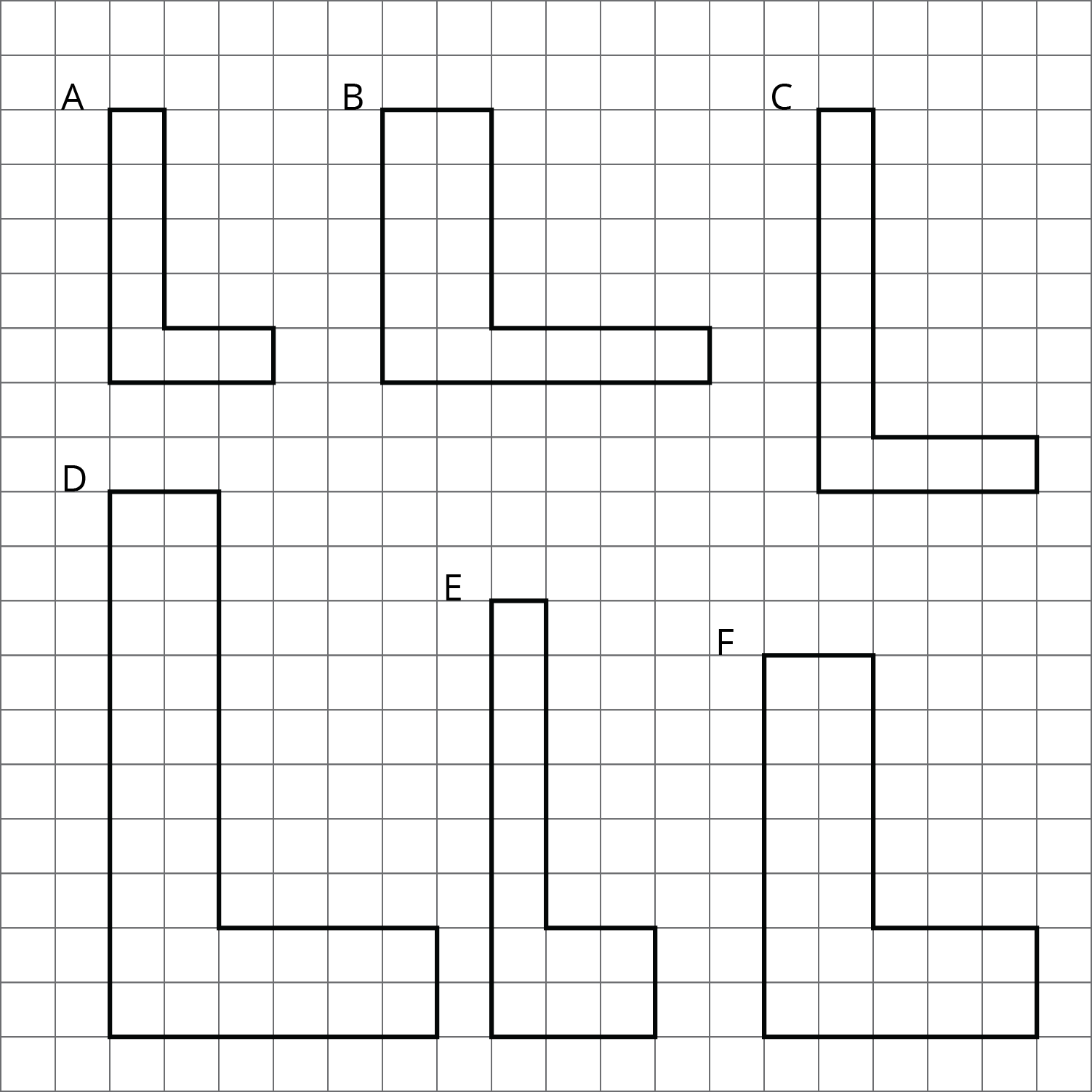
1. The two triangles shown are similar. Find the value of .

* 

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 10.)

1. Which is a scaled copy of Polygon A? Identify a pair of corresponding sides and a pair of corresponding angles. Compare the areas of the scaled copies.

* 
* (From Unit 2, Lesson 2.)

1. A map of Colorado says that the scale is 1 inch to 20 miles or 1 to 1,267,200. Are these two ways of reporting the scale the same? Explain your reasoning.

* (From Unit 2, Lesson 7.)



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