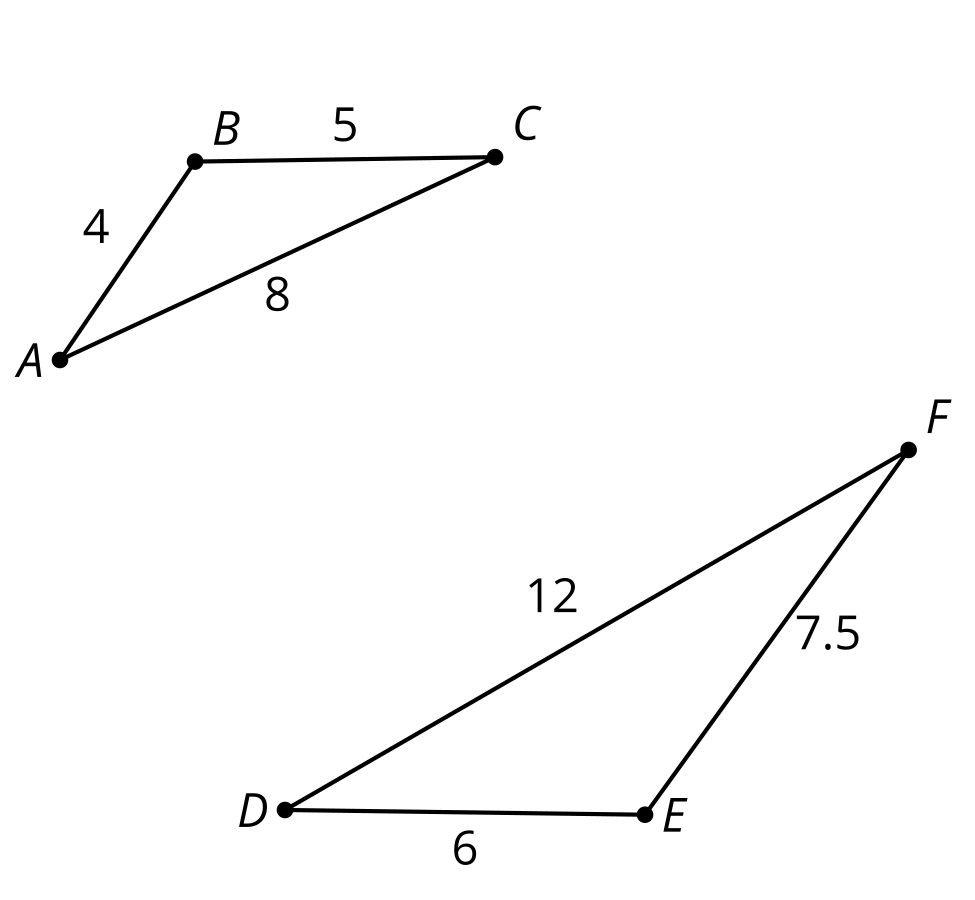
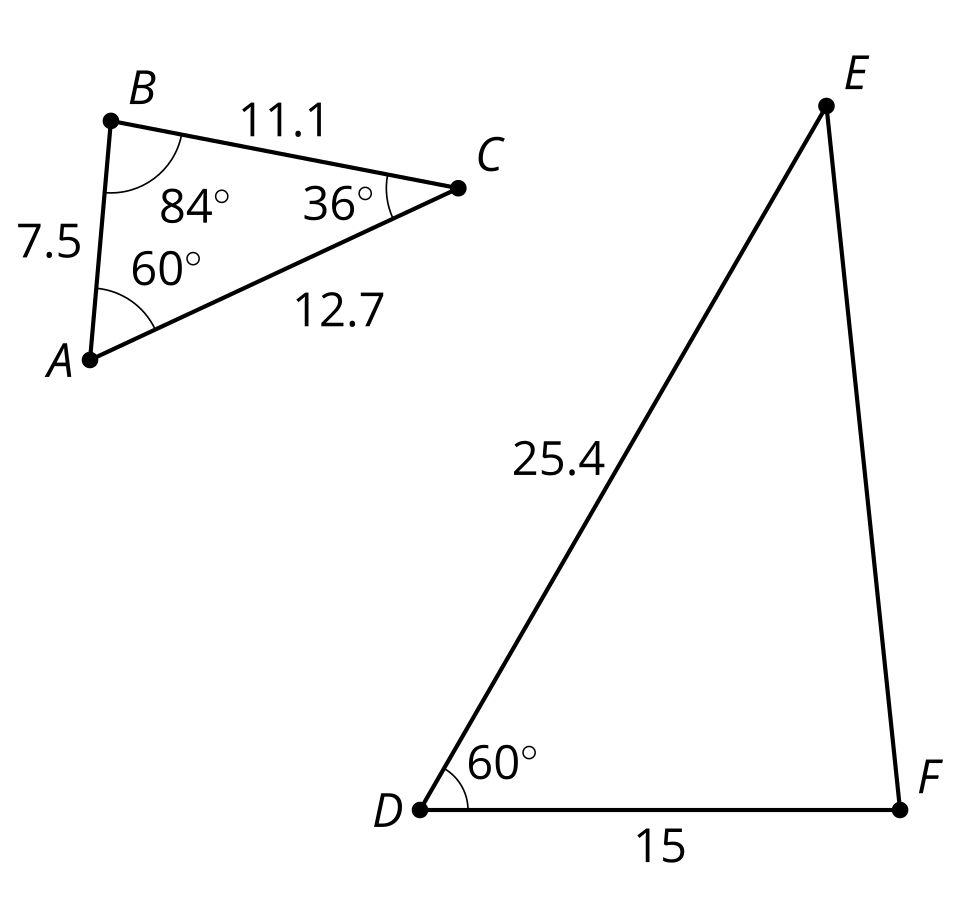
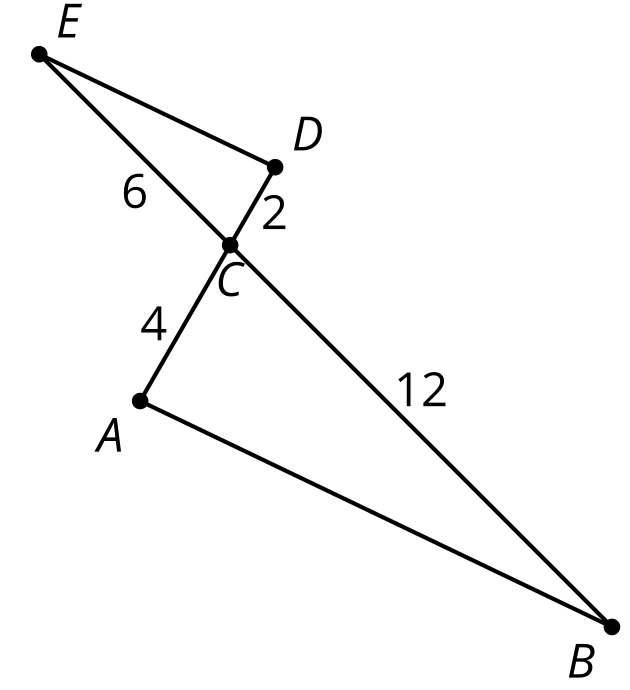
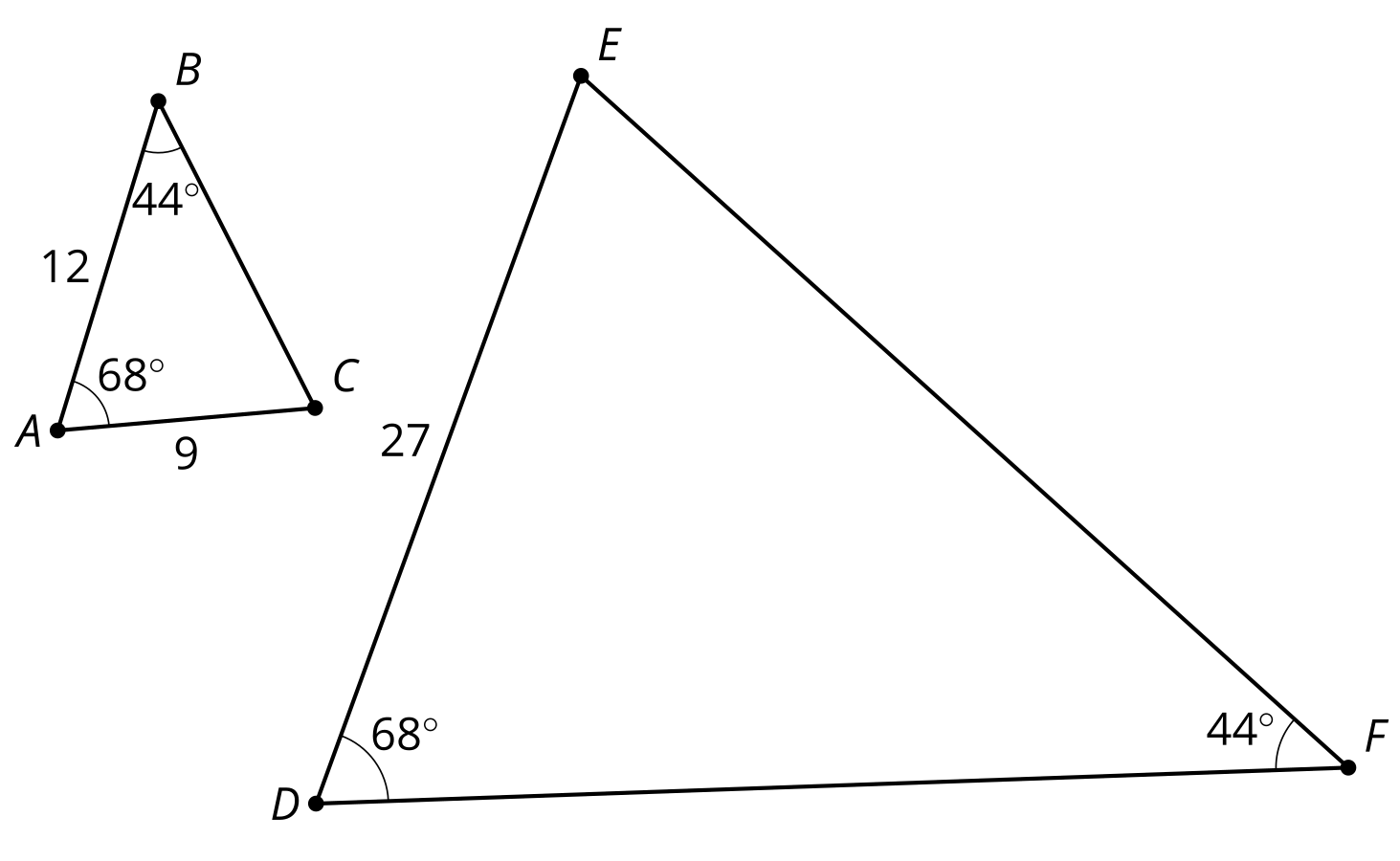
### Lesson 10 Practice Problems

* 1. Explain how we know that triangle and triangle are similar.
  2. What does that tell us about angle ?
* 
  1. Find the length of .
  2. Find the measure of angle .
  3. Find the measure of angle .
* 

1. Decide whether triangles and are similar. Explain or show your reasoning.

* 

1. What is the length of segment ?

* 
  1. 3 units
  2. units
  3. 36 units
  4. 48 units
* (From Unit 3, Lesson 9.)

1. In triangle , angle  is 75º and angle is 20º. Select the triangle that is similar to triangle .
   1. triangle where angle is 75º and angle is 20º
   2. triangle where angle is 20º and angle is 75º
   3. triangle where angle is 85º and angle is 20º
   4. triangle where angle is 20º and angle is 85º

* (From Unit 3, Lesson 9.)

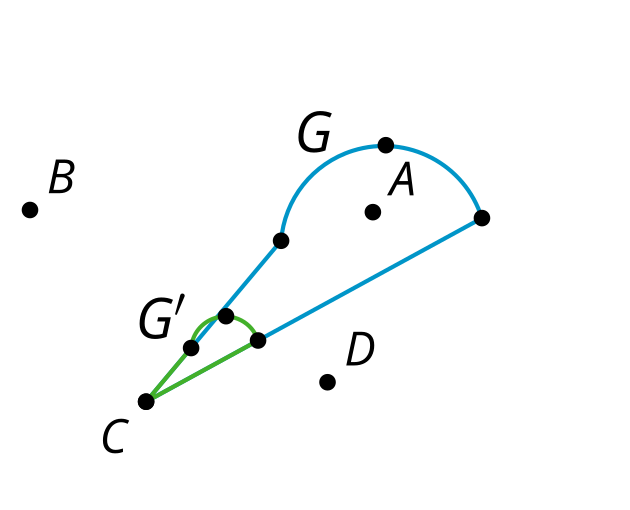
1. Sketch a pair of rectangles that are similar.

* (From Unit 3, Lesson 8.)

1. Determine if each statement must be true, could possibly be true, or definitely can't be true. Explain or show your reasoning.
   1. Two line segments are similar.
   2. Two angles are similar.

* (From Unit 3, Lesson 7.)

1. Figure is the image of Figure by a dilation.
   1. Where is the center of this dilation?
   2. Estimate the scale factor.

* 
* (From Unit 3, Lesson 2.)



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