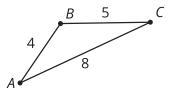
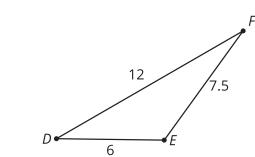


Lesson 10 Practice Problems

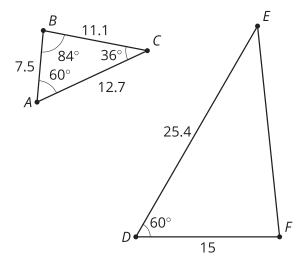
1. a. Explain how we know that triangle ABC and triangle DEF are similar.



b. What does that tell us about angle D?

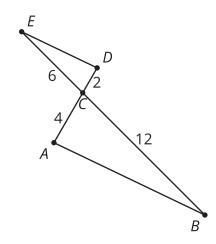


- 2. a. Find the length of EF.
 - b. Find the measure of angle $\it E$.
 - c. Find the measure of angle ${\it F}$.

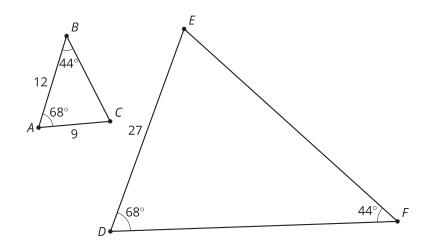




3. Decide whether triangles ABC and DEC are similar. Explain or show your reasoning.



4. What is the length of segment DF?



- A. 3 units
- B. $\frac{81}{4}$ units
- C. 36 units
- D. 48 units

(From Unit 3, Lesson 9.)



- 5. In triangle ABC, angle A is 75° and angle B is 20°. Select the triangle that is similar to triangle ABC.
 - A. triangle DEF where angle D is 75° and angle E is 20°
 - B. triangle DEF where angle D is 20° and angle E is 75°
 - C. triangle DEF where angle D is 85° and angle E is 20°
 - D. triangle DEF where angle D is 20° and angle F is 85°

(From Unit 3, Lesson 9.)

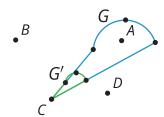
6. Sketch a pair of rectangles that are similar.

(From Unit 3, Lesson 8.)

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

(From Unit 3, Lesson 7.)

- 8. Figure G' is the image of Figure G by a dilation.
 - a. Where is the center of this dilation?
 - b. Estimate the scale factor.



(From Unit 3, Lesson 2.)