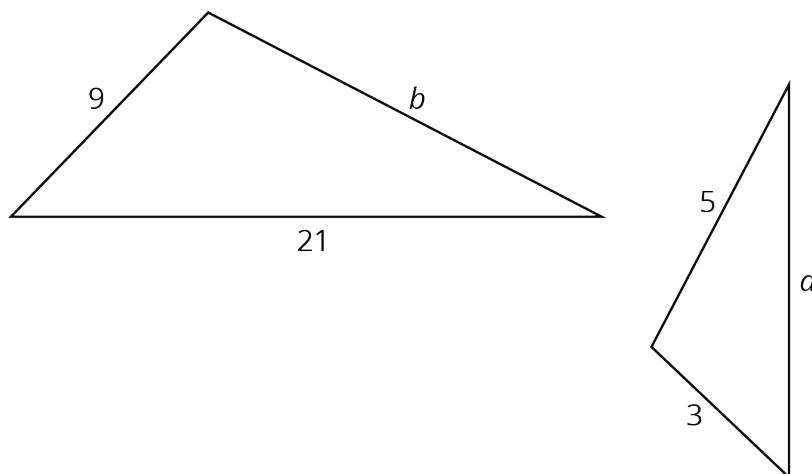


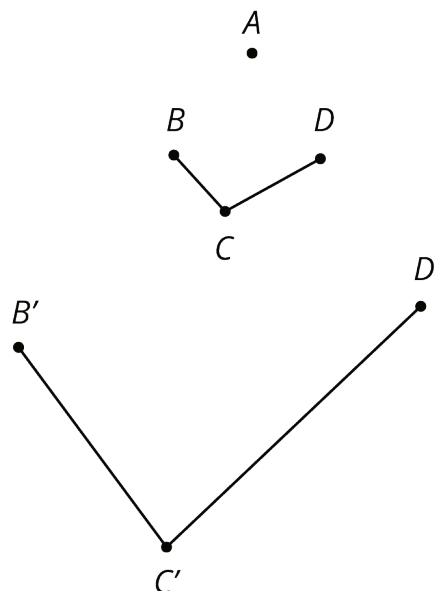
Lesson 12 Practice Problems

- Triangle DEF is a dilation of triangle ABC with scale factor 2. In triangle ABC , the largest angle measures 82° . What is the largest angle measure in triangle DEF ?
 - 41°
 - 82°
 - 123°
 - 164°
- Draw two polygons that are similar but could be mistaken for not being similar. Explain why they are similar.
- Draw two polygons that are *not* similar but could be mistaken for being similar. Explain why they are not similar.
- These two triangles are similar. Find side lengths a and b . Note: the two figures are not drawn to scale.



5. Jada claims that $B'C'D'$ is a dilation of BCD using A as the center of dilation.

What are some ways you can convince Jada that her claim is not true?



(From Unit 2, Lesson 9.)

6. a. Draw a horizontal line segment AB .

b. Rotate segment AB 90° counterclockwise around point A . Label any new points.

c. Rotate segment AB 90° clockwise around point B . Label any new points.

d. Describe a transformation on segment AB you could use to finish building a square.

(From Unit 1, Lesson 7.)