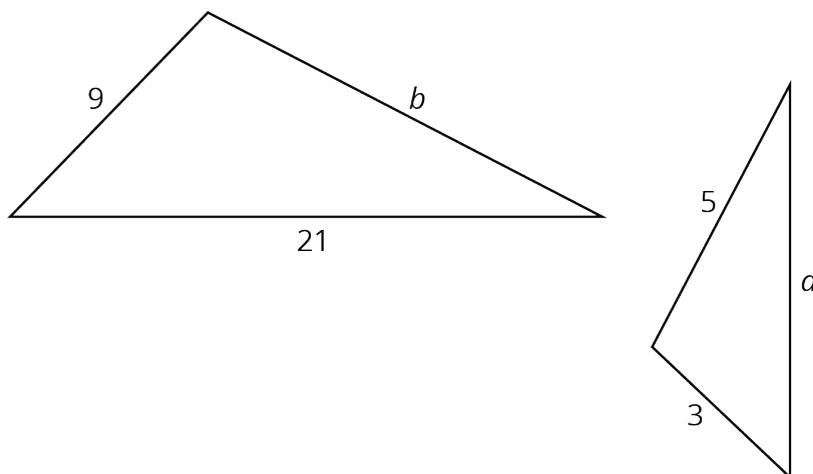


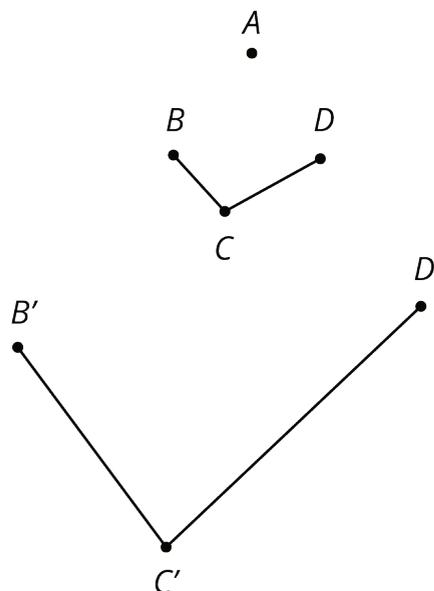
## Lesson 7 Practice Problems

- Triangle  $DEF$  is a dilation of triangle  $ABC$  with scale factor 2. In triangle  $ABC$ , the largest angle measures  $82^\circ$ . What is the largest angle measure in triangle  $DEF$ ?
  - $41^\circ$
  - $82^\circ$
  - $123^\circ$
  - $164^\circ$
- 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 3.)

6. a. Draw a horizontal line segment  $AB$ .

b. Rotate segment  $AB$   $90^\circ$  counterclockwise around point  $A$ . Label any new points.

c. Rotate segment  $AB$   $90^\circ$  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 8.)