

Lesson 7 Practice Problems

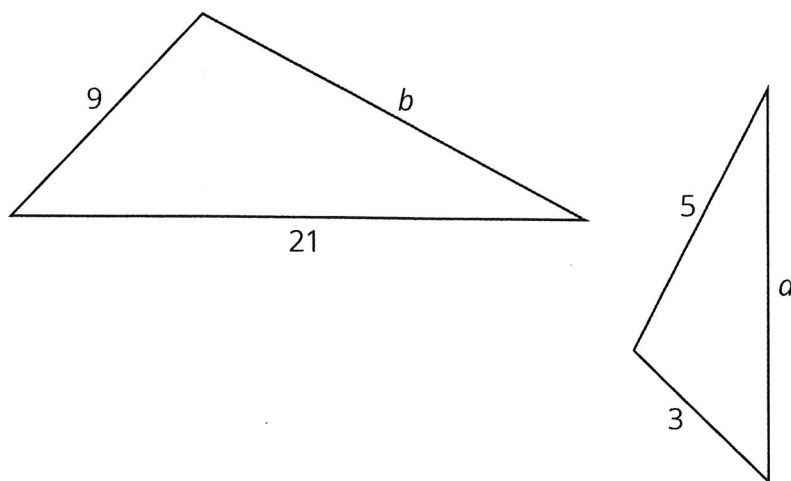
1. Triangle DEF is a dilation of triangle ABC with scale factor 2. In triangle ABC , the largest angle measures 82° . What is the largest angle measure in triangle DEF ?

A. 41°
B. 82°
C. 123°
D. 164°

2. Draw two polygons that are similar but could be mistaken for not being similar. Explain why they are similar.

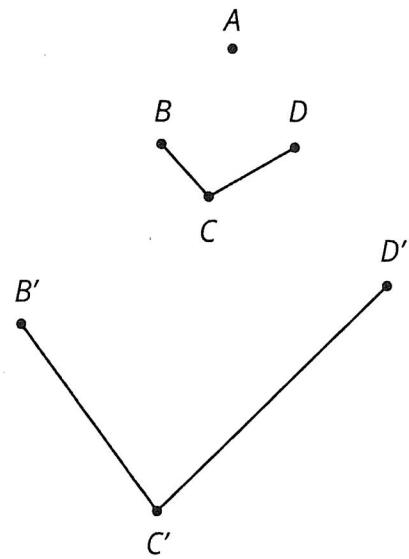
3. Draw two polygons that are *not* similar but could be mistaken for being similar. Explain why they are not similar.

4. 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?



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.