

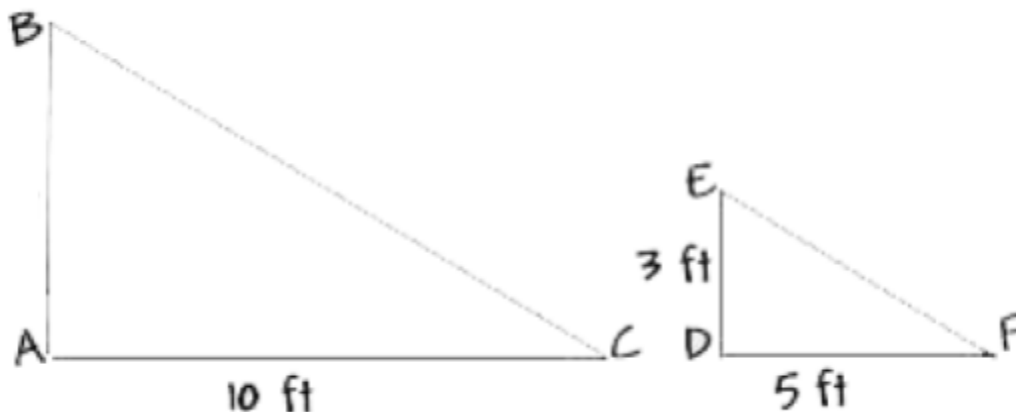
NAME

DATE

PERIOD

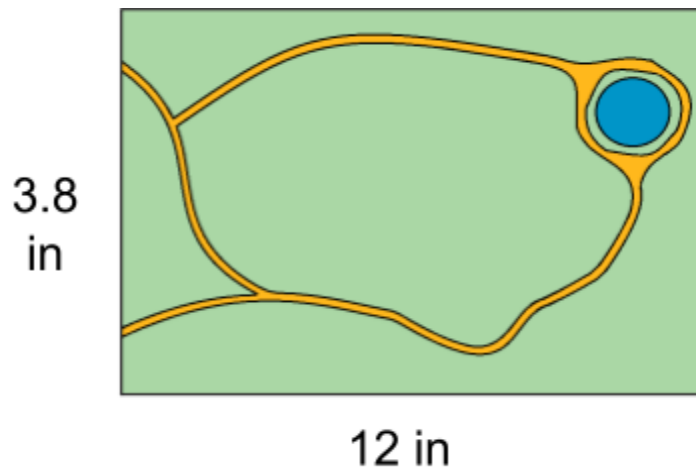
Scale Drawings, Similarity, and Slope: Mid-Unit Review

1. Triangle ABC is a scaled copy of Triangle DEF . Select **all** of the true statements.

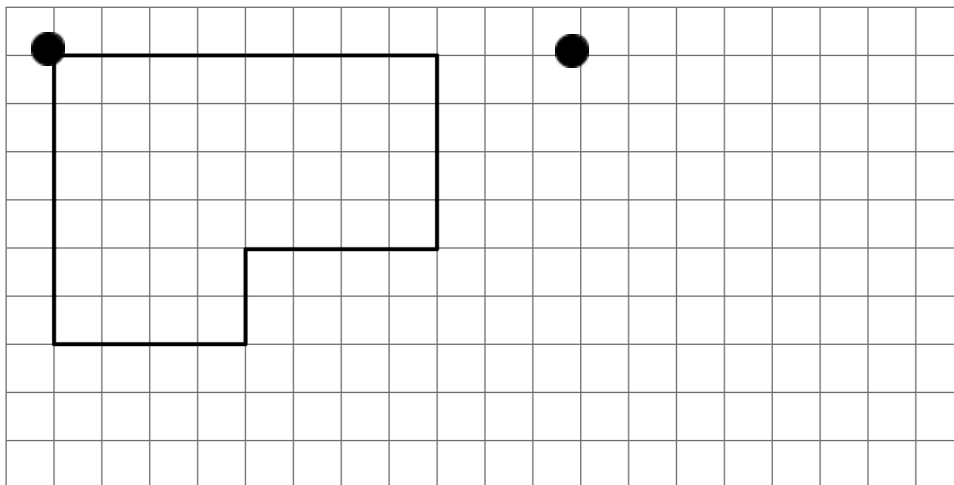


- a. Segment EF is twice as long as segment BC .
 - b. Segment AC is twice as long as segment DF .
 - c. The measure of angle ABC is twice the measure of angle DEF .
 - d. The length of segment AB is 6 ft.
 - e. The area of ABC is twice the area of DEF .
2. Rectangle A measures 7 inches by 8 inches. Rectangle B is a scaled copy of Rectangle A. Select **ALL** of the measurement pairs that could be the dimensions of Rectangle B.
- a. 3.5 inches by 4 inches
 - b. 8 inches by 9 inches
 - c. 8.75 inches by 10 inches
 - d. 12.5 inches by 13.5 inches
 - e. 70 inches by 80 inches

3. A scale drawing of a rectangular park is 12 inches wide and 3.8 inches long. The actual park is 240 yards wide. What is the area of the actual park, in square yards? **Show your work.**



- a. 45.6
 - b. 18,240
 - c. 912
 - d. 76
4. Here is a polygon. Draw a scaled copy of the polygon using a scale factor of $\frac{3}{4}$.



- 5.** The scale of a map says that 9 cm represents 11 km.
- a.** What distance on the map (in centimeters) represents an actual distance of 6 kilometers? (Round your answer to the nearest tenth)

 - b.** What is the actual number of kilometers that is represented by 5 centimeters on the map?
- 6.** There are two different maps of Pennsylvania.
- The scale on the first map is 1 cm to 12 km. The distance from Reading to Pittsburgh is 35 cm.
 - The scale on the second map is 1 cm to 48 km.

What is the distance from Reading to Pittsburgh on the second map? Explain your reasoning.

- 7.** Frank wants to make a scale drawing of his living room. His living room is a rectangle with a length of 800 cm and a width of 600 cm. He uses a scale of 1 to 40.
- a.** Draw and label the dimensions of a scale drawing of Frank's living room, using a scale of 1 to 40.
- b.** Frank's sofa is 140 cm wide. How wide should the sofa be on the scale drawing?
Explain your answer.
- c.** Frank's coffee table measures 2 cm by 1 cm on the scale drawing. What are the actual measurements of his table?