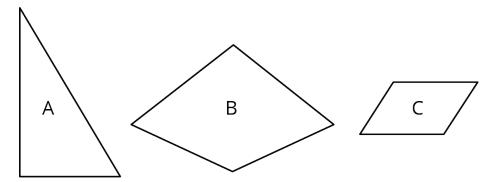# Lesson 8 Practice Problems

1. Rectangle $A$ measures 12 cm by 3 cm. Rectangle $B$ is a scaled copy of Rectangle $A$. Select **all** of the measurement pairs that could be the dimensions of Rectangle $B$.

   A. 6 cm by 1.5 cm

   B. 10 cm by 2 cm

   C. 13 cm by 4 cm

   D. 18 cm by 4.5 cm

   E. 80 cm by 20 cm

2. Rectangle $A$ has length 12 and width 8. Rectangle $B$ has length 15 and width 10. Rectangle $C$ has length 30 and width 15.

   a. Is Rectangle $A$ a scaled copy of Rectangle $B$? If so, what is the scale factor?

   b. Is Rectangle $B$ a scaled copy of Rectangle $A$? If so, what is the scale factor?

   c. Explain how you know that Rectangle $C$ is *not* a scaled copy of Rectangle $B$.

   d. Is Rectangle $A$ a scaled copy of Rectangle $C$? If so, what is the scale factor?

**Accelerated 7 Unit 2**

Lesson 8

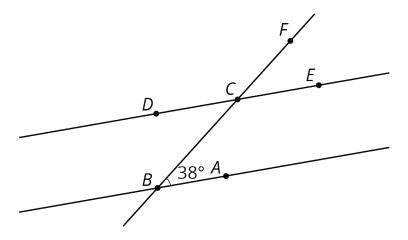CC BY Open Up Resources. Adaptations CC BY IM.

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3. Here are three polygons.



a. Draw a scaled copy of Polygon A with scale factor $\frac{1}{2}$.

b. Draw a scaled copy of Polygon B with scale factor 2.

c. Draw a scaled copy of Polygon C with scale factor $\frac{1}{4}$.

4. In the picture lines $AB$ and $CD$ are parallel. Find the measures of the following angles. Explain your reasoning.



   a. $\angle BCD$

   b. $\angle ECF$

   c. $\angle DCF$

(From Unit 1, Lesson 12.)

5. Which of these sets of angle measures could be the three angles in a triangle?

   A. $40°, 50°, 60°$

   B. $50°, 60°, 70°$

   C. $60°, 70°, 80°$

   D. $70°, 80°, 90°$

(From Unit 1, Lesson 13.)

6. Quadrilateral A has side lengths 3, 6, 6, and 9. Quadrilateral B is a scaled copy of A with a shortest side length equal to 2. Jada says, "Since the side lengths go down by 1 in this scaling, the perimeter goes down by 4 in total." Do you agree with Jada? Explain your reasoning.

(From Unit 2, Lesson 2.)