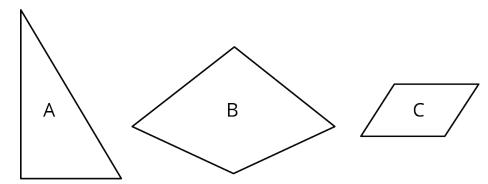


Lesson 1 Practice Problems

- 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 $\it B$ a scaled copy of Rectangle $\it A$? 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?



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.

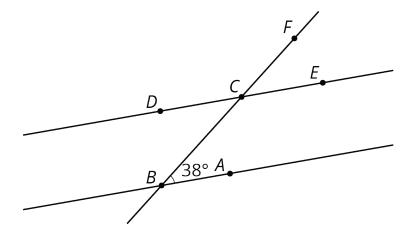
c. Draw a scaled copy of Polygon C with scale factor $\frac{1}{4}$.



- 4. 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 15.)

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



- a. ∠BCD
- b. ∠ECF
- c. $\angle DCF$

(From Unit 1, Lesson 14.)