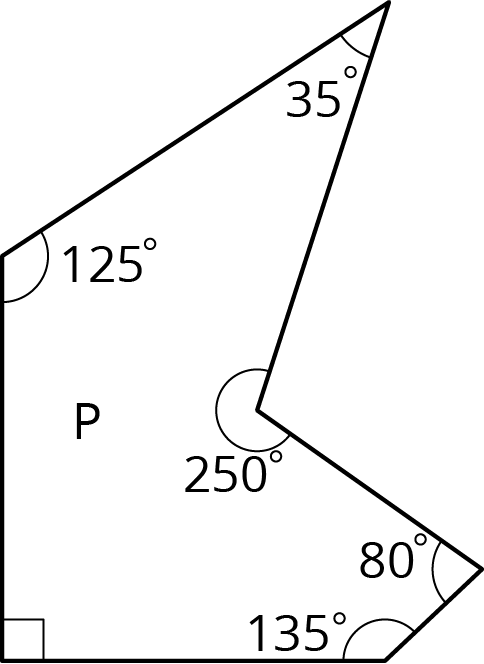
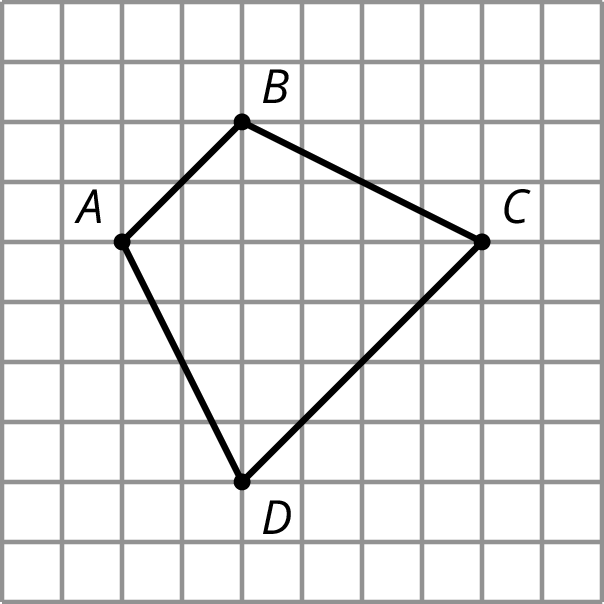
### Lesson 4 Practice Problems

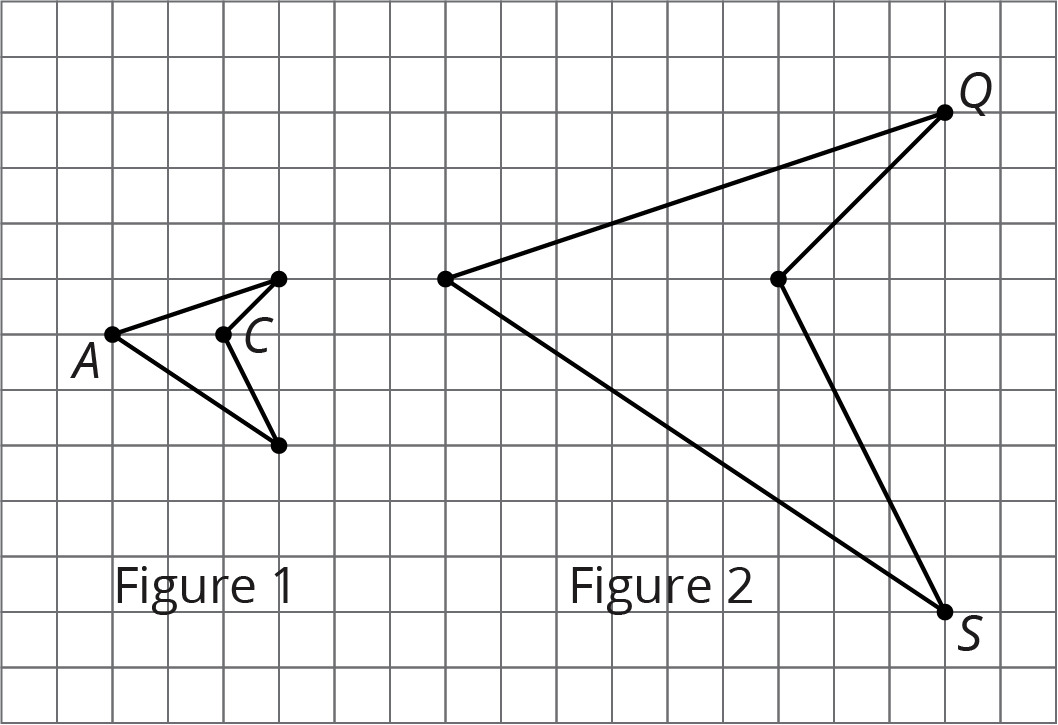
1. Select **all** the statements that must be true for *any* scaled copy Q of Polygon P.

* 
  1. The side lengths are all whole numbers.
  2. The angle measures are all whole numbers.
  3. Q has exactly 1 right angle.
  4. If the scale factor between P and Q is , then each side length of P is multiplied by to get the corresponding side length of Q.
  5. If the scale factor is 2, each angle in P is multiplied by 2 to get the corresponding angle in Q.
  6. Q has 2 acute angles and 3 obtuse angles.

1. Here is Quadrilateral .

* 
* Quadrilateral is a scaled copy of Quadrilateral . Point  corresponds to , to , to , and to .
* If the distance from to is 3 units, what is the distance from  to ? Explain your reasoning.

1. Figure 2 is a scaled copy of Figure 1.

* 
  1. Identify the points in Figure 2 that correspond to the points and in Figure 1. Label them and . What is the distance between and ?
  2. Identify the points in Figure 1 that correspond to the points and in Figure 2. Label them and . What is the distance between and ?
  3. What is the scale factor that takes Figure 1 to Figure 2?
  4. and are two points on Figure 1, but they are not shown. The distance between and is 1. What is the distance between the corresponding points on Figure 2?

1. To make 1 batch of lavender paint, the ratio of cups of pink paint to cups of blue paint is 6 to 5. Find two more ratios of cups of pink paint to cups of blue paint that are equivalent to this ratio.



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