

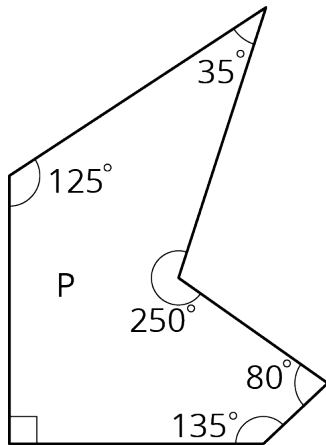
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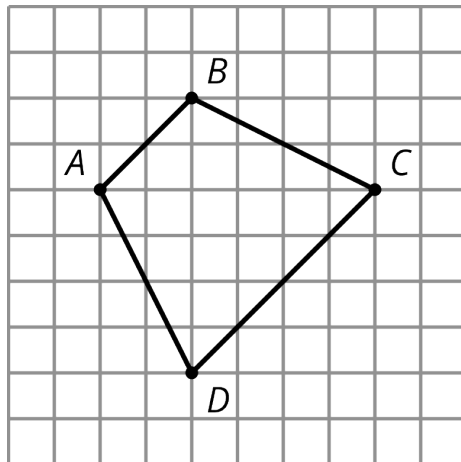
## Unit 1, Lesson 4 Practice Problems

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



- A. The side lengths are all whole numbers.
- B. The angle measures are all whole numbers.
- C. Q has exactly 1 right angle.
- D. If the scale factor between P and Q is  $\frac{1}{5}$ , then each side length of P is multiplied by  $\frac{1}{5}$  to get the corresponding side length of Q.
- E. If the scale factor is 2, each angle in P is multiplied by 2 to get the corresponding angle in Q.
- F. Q has 2 acute angles and 3 obtuse angles.

2. Here is Quadrilateral *ABCD*.



Quadrilateral *PQRS* is a scaled copy of Quadrilateral *ABCD*. Point *P* corresponds to *A*, *Q* to *B*, *R* to *C*, and *S* to *D*.

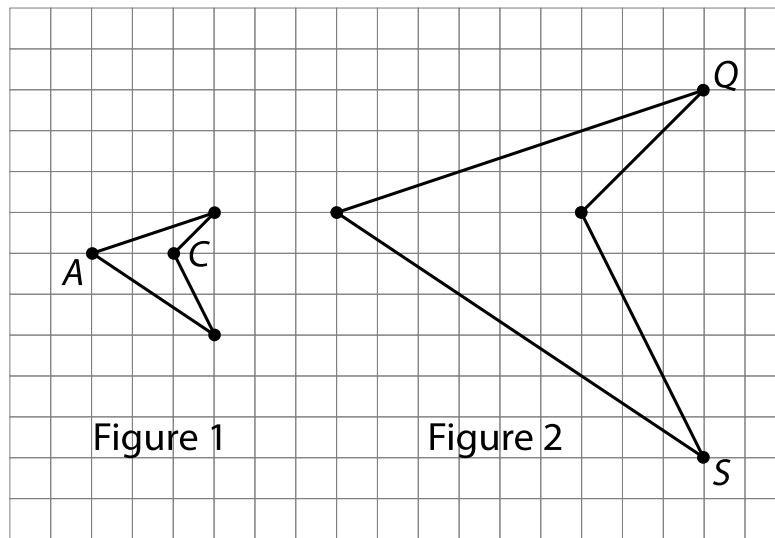
If the distance from *P* to *R* is 3 units, what is the distance from *Q* to *S*? Explain your reasoning.

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



- Identify the points in Figure 2 that correspond to the points  $A$  and  $C$  in Figure 1. Label them  $P$  and  $R$ . What is the distance between  $P$  and  $R$ ?
- Identify the points in Figure 1 that correspond to the points  $Q$  and  $S$  in Figure 2. Label them  $B$  and  $D$ . What is the distance between  $B$  and  $D$ ?
- What is the scale factor that takes Figure 1 to Figure 2?
- $G$  and  $H$  are two points on Figure 1, but they are not shown. The distance between  $G$  and  $H$  is 1. What is the distance between the corresponding points on Figure 2?



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4. 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.