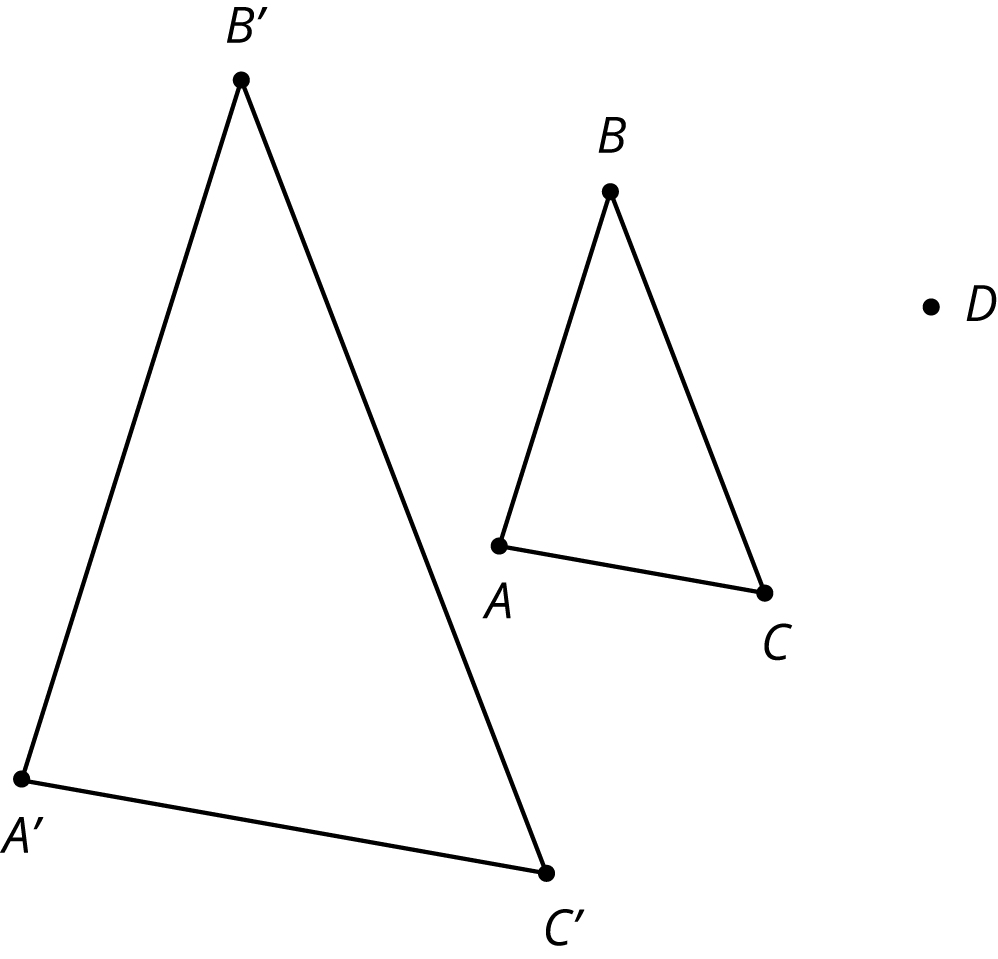
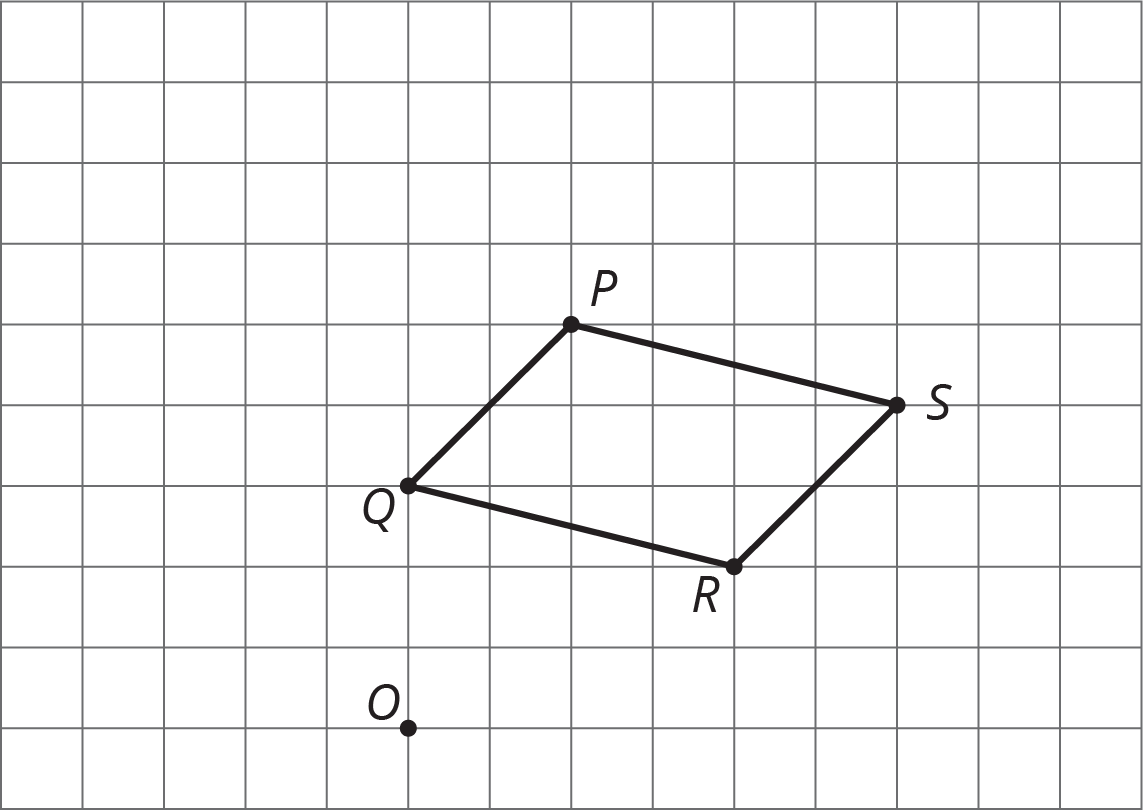
### Lesson 4 Practice Problems

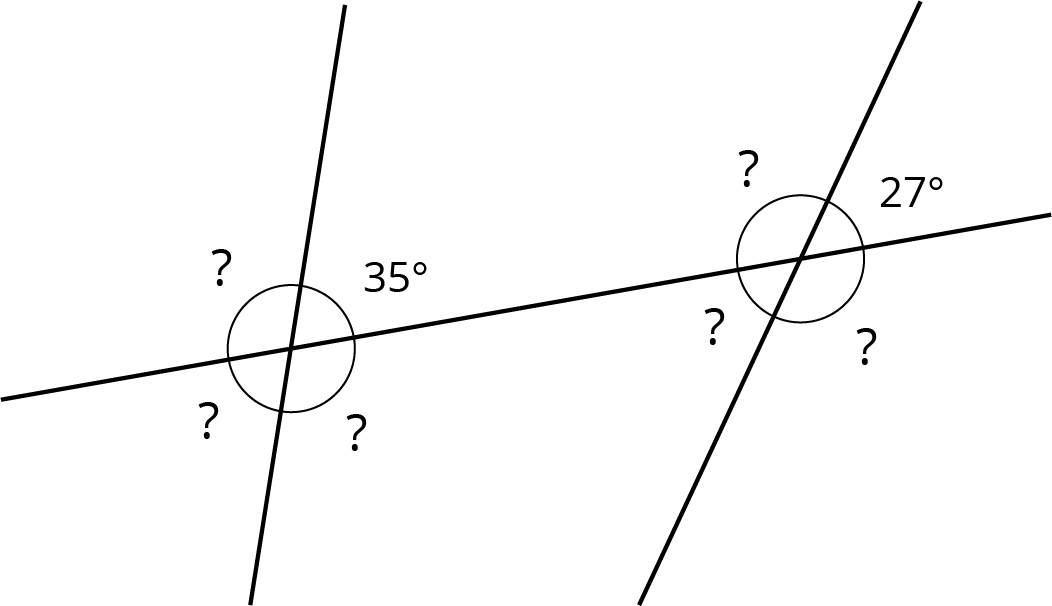
1. Triangle is dilated using as the center of dilation with scale factor 2.

* The image is triangle . Clare says the two triangles are congruent, because their angle measures are the same. Do you agree? Explain how you know.
* 

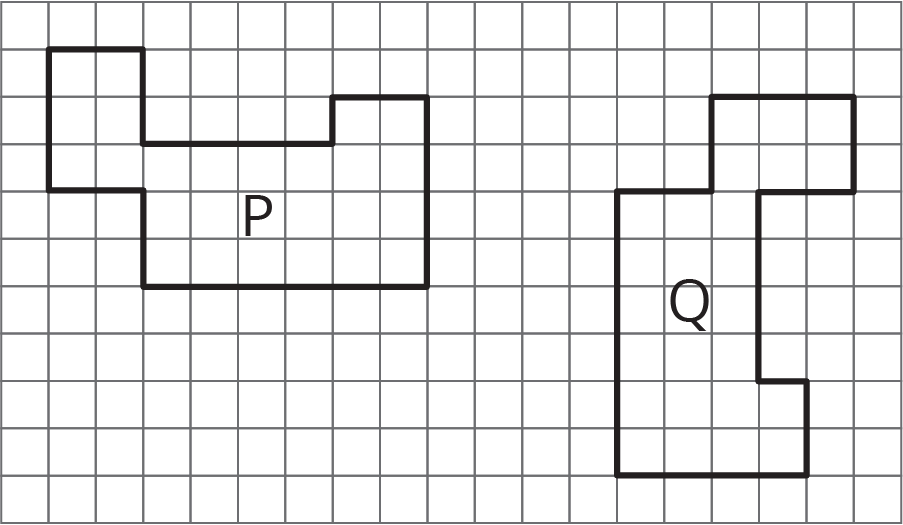
1. On graph paper, sketch the image of quadrilateral PQRS under the following dilations:
   1. The dilation centered at with scale factor 2.
   2. The dilation centered at with scale factor .
   3. The dilation centered at with scale factor .

* 

1. The diagram shows three lines with some marked angle measures.

* 
* Find the missing angle measures marked with question marks.
* (From Unit 1, Lesson 14.)

1. Describe a sequence of translations, rotations, and reflections that takes Polygon P to Polygon Q.

* 
* (From Unit 1, Lesson 4.)

1. Point has coordinates . After a translation 4 units down, a reflection across the -axis, and a translation 6 units up, what are the coordinates of the image?

* (From Unit 1, Lesson 6.)



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