Unit 1 Lesson 7

7.2: Sides and Angles

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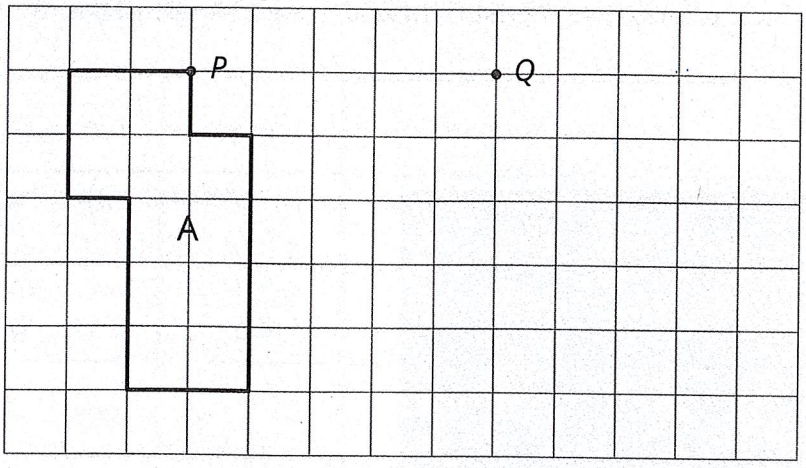
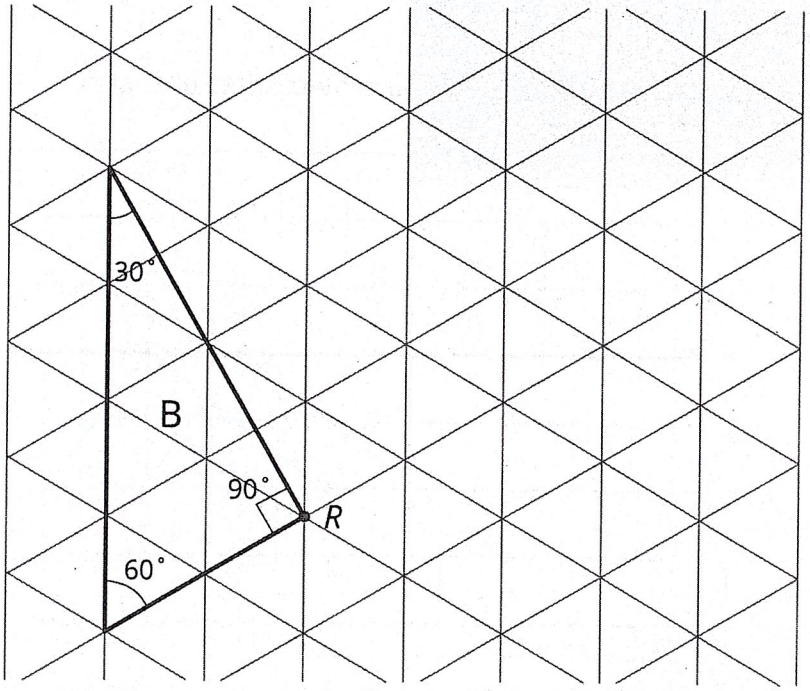
1. Translate Polygon A so point P goes to point Q. In the image, write the length of each side, in grid units, next to the side.



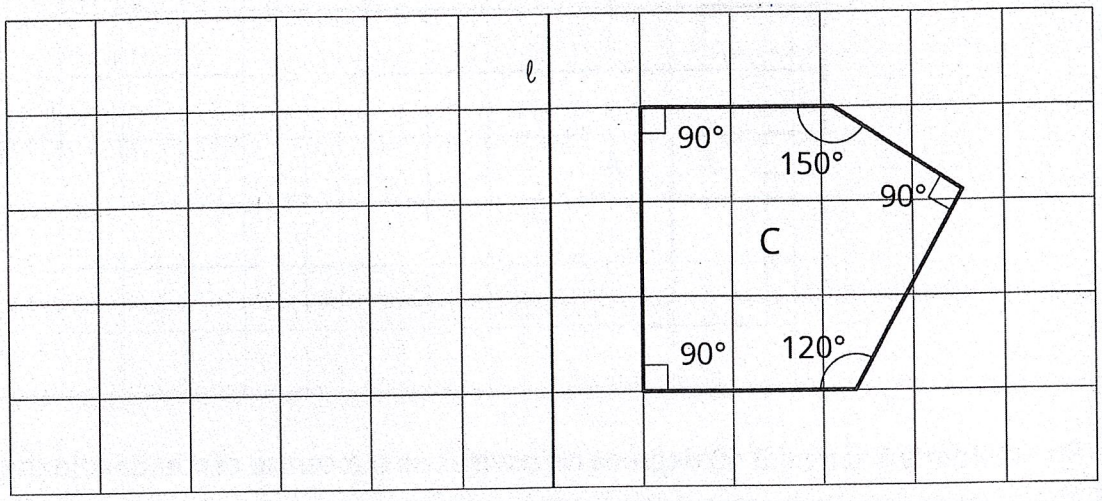
2. Rotate Triangle B 90 degrees clockwise using R as the center of rotation. In the image, write the measure of each angle in its interior.



3. Reflect Pentagon C across line ℓ.

   a. In the image, write the length of each side, in grid units, next to the side. You may need to make your own ruler with tracing paper or a blank index card.

   b. In the image, write the measure of each angle in the interior.



7.3: Which One?

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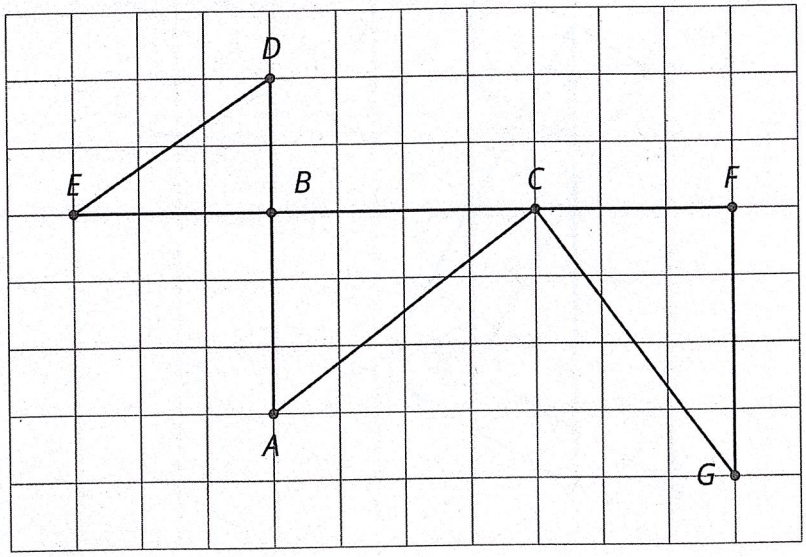
Here is a grid showing triangle ABC and two other triangles.



You can use a **rigid transformation** to take triangle ABC to *one* of the other triangles.

1. Which one? Explain how you know.

2. Describe a rigid transformation that takes ABC to the triangle you selected.

Are you ready for more?

A square is made up of an L-shaped region and three transformations of the region. If the perimeter of the square is 40 units, what is the perimeter of each L-shaped region?