

Lesson 5 Practice Problems

1. An image of a book shown on a website is 1.5 inches wide and 3 inches tall on a computer monitor. The actual book is 9 inches wide.

a. What scale is being used for the image?

b. How tall is the actual book?

2. The flag of Colombia is a rectangle that is 6 ft long with three horizontal stripes.



○ The top stripe is 2 ft tall and is yellow.

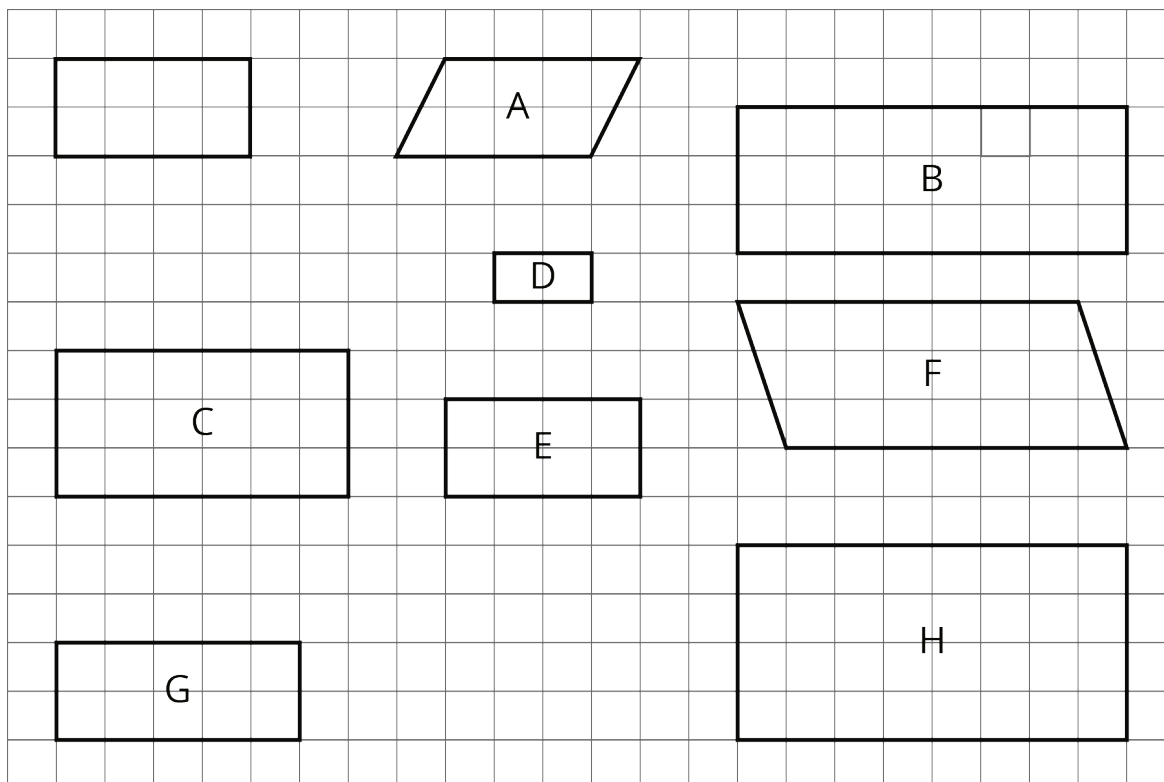
○ The middle stripe is 1 ft tall and is blue.

○ The bottom stripe is also 1 ft tall and is red.

a. Create a scale drawing of the Colombian flag with a scale of 1 cm to 2 ft.

b. Create a scale drawing of the Colombian flag with a scale of 2 cm to 1 ft.

3. Here is an unlabeled rectangle, followed by other quadrilaterals that are labeled.

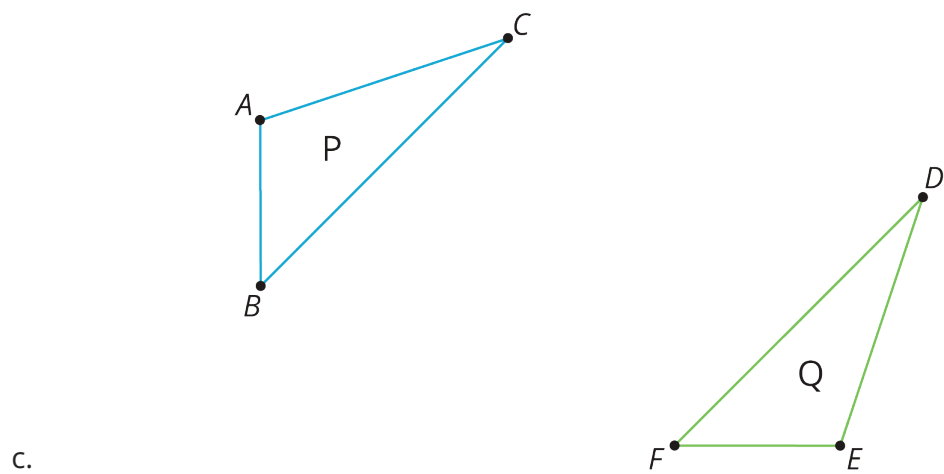
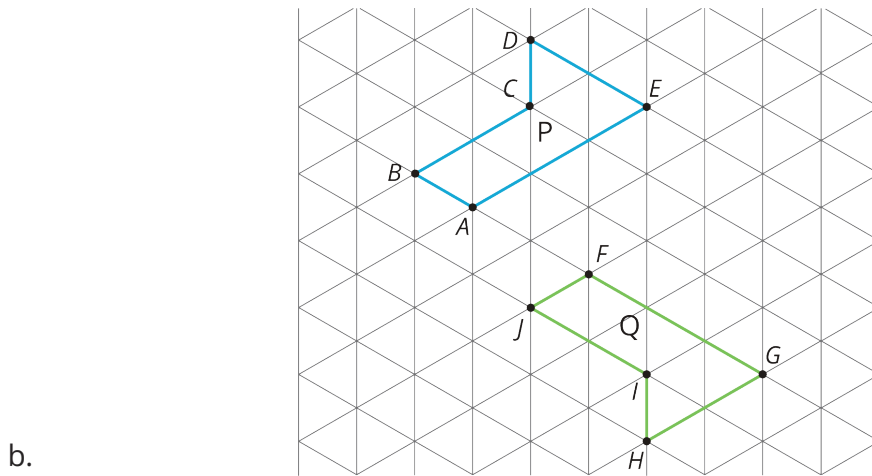
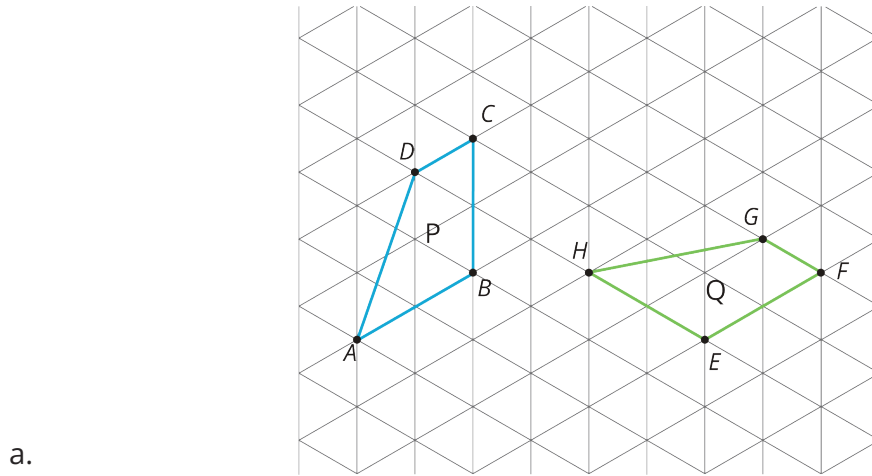


a. Select **all** quadrilaterals that are scaled copies of the unlabeled rectangle. Explain how you know.

b. On graph paper, draw a different scaled version of the original rectangle.

(From Unit 2, Lesson 2.)

4. For each pair of polygons, describe a sequence of translations, rotations, and reflections that takes Polygon P to Polygon Q.



(From Unit 1, Lesson 3.)