



NAME _____

DATE _____

PERIOD _____

Unit 1, Lesson 9**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 strips.



- 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.

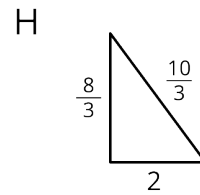
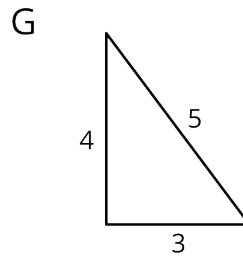
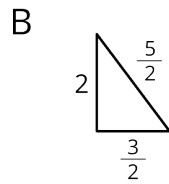
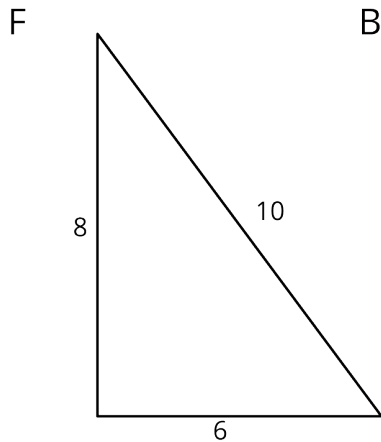
- b. Create a scale drawing of the Colombian flag with a scale of 2 cm to 1 ft.

3. These triangles are scaled copies of each other.

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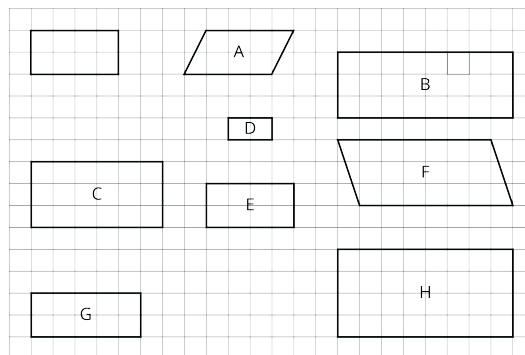


For each pair of triangles listed, the area of the second triangle is how many times larger than the area of the first?

- Triangle G and Triangle F
- Triangle G and Triangle B
- Triangle B and Triangle F
- Triangle F and Triangle H
- Triangle G and Triangle H
- Triangle H and Triangle B

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

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



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