### 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.
	1. What scale is being used for the image?
	2. 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.
	1. Create a scale drawing of the Colombian flag with a scale of 1 cm to 2 ft.
	2. Create a scale drawing of the Colombian flag with a scale of 2 cm to 1 ft.
1. These triangles are scaled copies of each other.
* 
* For each pair of triangles listed, the area of the second triangle is how many times larger than the area of the first?
	1. Triangle G and Triangle F
	2. Triangle G and Triangle B
	3. Triangle B and Triangle F
	4. Triangle F and Triangle H
	5. Triangle G and Triangle H
	6. Triangle H and Triangle B
* (From Unit 1, Lesson 6.)
1. Here is an unlabeled rectangle, followed by other quadrilaterals that are labeled.
* 
	1. Select **all** quadrilaterals that are scaled copies of the unlabeled rectangle. Explain how you know.
	2. On graph paper, draw a different scaled version of the original rectangle.
* (From Unit 1, Lesson 3.)



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