### Lesson 1 Practice Problems

1. Which one of these shapes is not like the others? Explain what makes it different by representing each width and height pair with a ratio.
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1. In one version of a trail mix, there are 3 cups of peanuts mixed with 2 cups of raisins. In another version of trail mix, there are 4.5 cups of peanuts mixed with 3 cups of raisins. Are the ratios equivalent for the two mixes? Explain your reasoning.
2. For each object, choose an appropriate scale for a drawing that fits on a regular sheet of paper. Not all of the scales on the list will be used.
* Objects
	1. A person
	2. A football field (120 yards by 53$\frac{1}{3}$ yards)
	3. The state of Washington (about 240 miles by 360 miles)
	4. The floor plan of a house
	5. A rectangular farm (6 miles by 2 mile)
* Scales
	+ 1 in : 1 ft
	+ 1 cm : 1 m
	+ 1: 1000
	+ 1 ft: 1 mile
	+ 1: 100,000
	+ 1 mm: 1 km
	+ 1: 10,000,000
* (From Unit 1, Lesson 12.)
1. Which scale is equivalent to 1 cm to 1 km?
	1. 1 to 1000
	2. 10,000 to 1
	3. 1 to 100,000
	4. 100,000 to 1
	5. 1 to 1,000,000
* (From Unit 1, Lesson 11.)
	1. Find 3 different ratios that are equivalent to $7:3$.
	2. Explain why these ratios are equivalent.



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