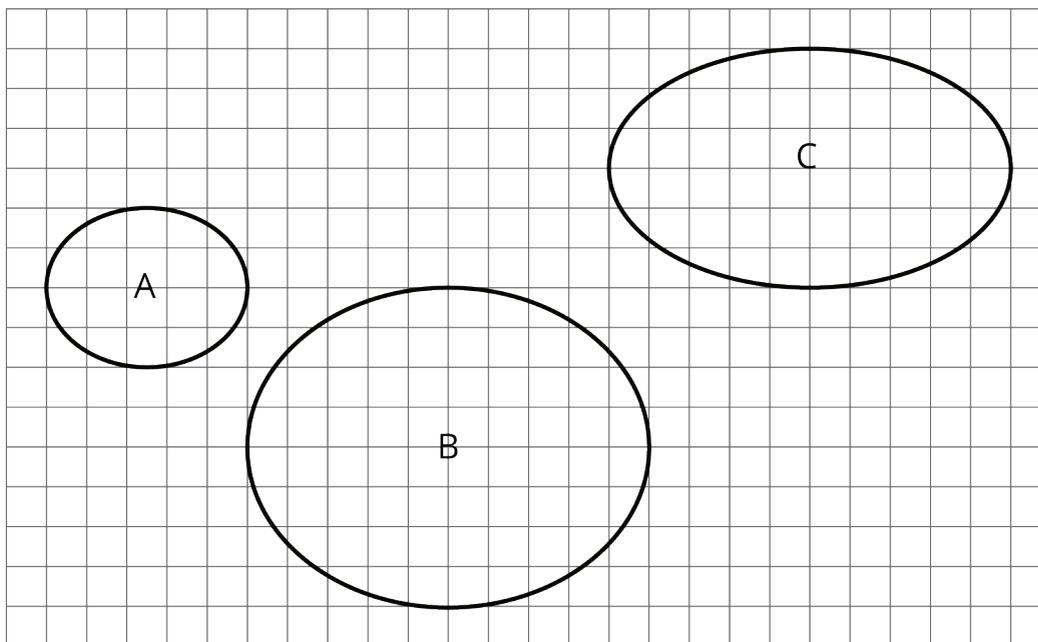


Lesson 1 Practice Problems

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.



2. 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.

3. 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	Scales
a. A person	<input type="radio"/> 1 in : 1 ft
b. A football field (120 yards by $53\frac{1}{3}$ yards)	<input type="radio"/> 1 cm : 1 m
c. The state of Washington (about 240 miles by 360 miles)	<input type="radio"/> 1: 1000
d. The floor plan of a house	<input type="radio"/> 1 ft: 1 mile
e. A rectangular farm (6 miles by 2 mile)	<input type="radio"/> 1: 100,000
	<input type="radio"/> 1 mm: 1 km
	<input type="radio"/> 1: 10,000,000

(From Unit 1, Lesson 12.)

4. Which scale is equivalent to 1 cm to 1 km?

- A. 1 to 1000
- B. 10,000 to 1
- C. 1 to 100,000
- D. 100,000 to 1
- E. 1 to 1,000,000

(From Unit 1, Lesson 11.)

5. a. Find 3 different ratios that are equivalent to 7 : 3.

b. Explain why these ratios are equivalent.