## Unit 2 Lesson 4 Cumulative Practice Problems

1. Here is a diagram showing a mixture of red paint and green paint needed for 1 batch of a particular shade of brown.
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* Add to the diagram so that it shows 3 batches of the same shade of brown paint.
1. Diego makes green paint by mixing 10 tablespoons of yellow paint and 2 tablespoons of blue paint. Which of these mixtures produce the same shade of green paint as Diego’s mixture? Select **all** that apply.
	1. For every 5 tablespoons of blue paint, mix in 1 tablespoon of yellow paint.
	2. Mix tablespoons of blue paint and yellow paint in the ratio $1:5$.
	3. Mix tablespoons of yellow paint and blue paint in the ratio 15 to 3.
	4. Mix 11 tablespoons of yellow paint and 3 tablespoons of blue paint.
	5. For every tablespoon of blue paint, mix in 5 tablespoons of yellow paint.
2. To make 1 batch of sky blue paint, Clare mixes 2 cups of blue paint with 1 gallon of white paint.
	1. Explain how Clare can make 2 batches of sky blue paint.
	2. Explain how to make a mixture that is a darker shade of blue than the sky blue.
	3. Explain how to make a mixture that is a lighter shade of blue than the sky blue.
3. A smoothie recipe calls for 3 cups of milk, 2 frozen bananas and 1 tablespoon of chocolate syrup.
	1. Create a diagram to represent the quantities of each ingredient in the recipe.
	2. Write 3 different sentences that use a ratio to describe the recipe.
* (From Unit 2, Lesson 2.)
1. Write the missing number under each tick mark on the number line.
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* (From Unit 2, Lesson 1.)
1. Find the area of the parallelogram. Show your reasoning.
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* (From Unit 1, Lesson 4.)
1. Complete each equation with a number that makes it true.
	1. $11⋅\frac{1}{4}=\\_\\_\\_\\_\\_\\_\\_$
	2. $7⋅\frac{1}{4}=\\_\\_\\_\\_\\_\\_\\_$
	3. $13⋅\frac{1}{27}=\\_\\_\\_\\_\\_\\_\\_$
	4. $13⋅\frac{1}{99}=\\_\\_\\_\\_\\_\\_\\_$
	5. $x⋅\frac{1}{y}=\\_\\_\\_\\_\\_\\_\\_$
	(As long as $y$ does not equal 0.)
* (From Unit 2, Lesson 1.)



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