 Name_____

Equivalent Ratios

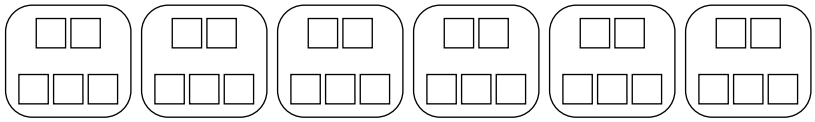
Date_____ Period____

Solve the ratio problem. A batch diagram representing the equivalent ratios is provided.

1) Rob mixed 2 cans of blue paint with 3 cans of red paint to make enough purple paint to cover a wall. Lisa wants to paint 6 identical walls with the same purple. How many cans of blue paint and how many cans of red paint does Lisa need?

cans of blue paint

cans of red paint



Sketch a batch diagram to represent the equivalent ratios and then solve the ratio problem.

2) A recipe for a batch of banana muffins calls for 6 bananas and 5 teaspoons of vanilla extract. A baker wants to make 4 batches. How many bananas and how many teaspoons of vanilla extract should he use?

Solve the ratio problem. A tape diagram representing the equivalent ratios is provided.

3) A recipe for a batch of chocolate chip cookies calls for 10 cups of white sugar and 3 cups of butter. A baker wants to make 2 batches. How many cups of white sugar and how many cups of butter should he use?

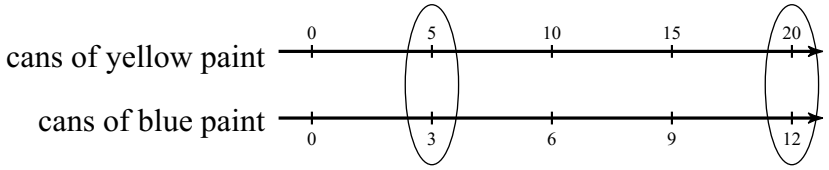
cups of white sugar	2	2	2	2	2	2	2	2	2	2
cups of butter	2	2	2							

Sketch a tape diagram to represent the equivalent ratios and then solve the ratio problem.

4) Stephanie mixed 2 cans of blue paint with 5 cans of yellow paint to make enough green paint to cover a wall. Gabriella wants to paint 4 identical walls with the same green. How many cans of blue paint and how many cans of yellow paint does Gabriella need?

Solve the ratio problem. A double number line representing the equivalent ratios is provided.

5) Kali mixed 5 cans of yellow paint with 3 cans of blue paint to make enough green paint to cover a wall. Ryan wants to paint 4 identical walls with the same green. How many cans of yellow paint and how many cans of blue paint does Ryan need?



Sketch a double number line to represent the equivalent ratios and then solve the ratio problem.

6) A recipe for a batch of cupcakes calls for 5 cups of white sugar and 2 cups of butter. A baker wants to make a larger quantity by using 10 cups of white sugar instead. How many cups of butter should he use?

Solve each ratio problem.

7) A recipe for a batch of banana muffins calls for 6 cups of flour and 1 cup of butter. A baker wants to make 2 batches. How many cups of flour and how many cups of butter should he use?

8) A recipe for a batch of bagels calls for 5 cups of flour and 3 teaspoons of yeast. A baker wants to make a larger quantity by using 25 cups of flour instead. How many teaspoons of yeast should he use?

9) Find the ratio equivalent to 6:7 that results when both terms are multiplied by 2.

10) Find the missing term that makes 3:2 and ☐:16 equivalent ratios.

Kuta Software - Infinite Grade 6 Math Name_____

Equivalent Ratios

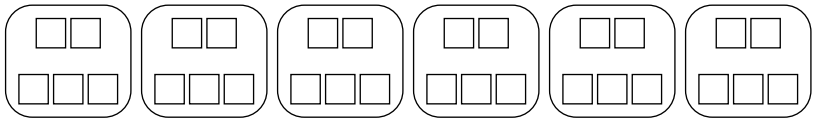
Date_____ Period____

Solve the ratio problem. A batch diagram representing the equivalent ratios is provided.

1) Rob mixed 2 cans of blue paint with 3 cans of red paint to make enough purple paint to cover a wall. Lisa wants to paint 6 identical walls with the same purple. How many cans of blue paint and how many cans of red paint does Lisa need?

cans of blue paint

cans of red paint



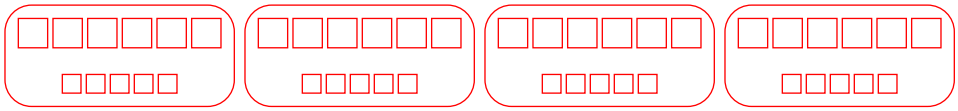
12 cans of blue paint, 18 cans of red paint

Sketch a batch diagram to represent the equivalent ratios and then solve the ratio problem.

2) A recipe for a batch of banana muffins calls for 6 bananas and 5 teaspoons of vanilla extract. A baker wants to make 4 batches. How many bananas and how many teaspoons of vanilla extract should he use?

bananas

tsp of vanilla extract



24 bananas, 20 teaspoons of vanilla extract

Solve the ratio problem. A tape diagram representing the equivalent ratios is provided.

3) A recipe for a batch of chocolate chip cookies calls for 10 cups of white sugar and 3 cups of butter. A baker wants to make 2 batches. How many cups of white sugar and how many cups of butter should he use?

cups of white sugar

2	2	2	2	2	2	2	2	2	2

cups of butter

2	2	2

20 cups of white sugar, 6 cups of butter

Sketch a tape diagram to represent the equivalent ratios and then solve the ratio problem.

4) Stephanie mixed 2 cans of blue paint with 5 cans of yellow paint to make enough green paint to cover a wall. Gabriella wants to paint 4 identical walls with the same green. How many cans of blue paint and how many cans of yellow paint does Gabriella need?

cans of blue paint

4	4

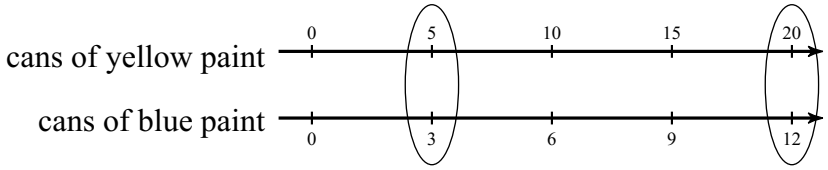
cans of yellow paint

4	4	4	4	4

8 cans of blue paint, 20 cans of yellow paint

Solve the ratio problem. A double number line representing the equivalent ratios is provided.

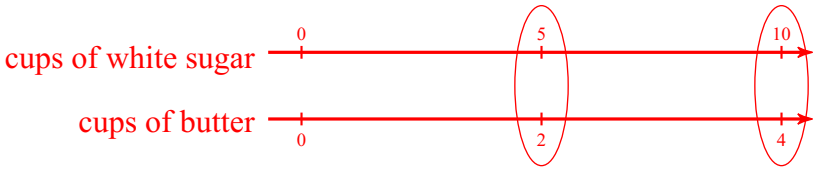
5) Kali mixed 5 cans of yellow paint with 3 cans of blue paint to make enough green paint to cover a wall. Ryan wants to paint 4 identical walls with the same green. How many cans of yellow paint and how many cans of blue paint does Ryan need?



20 cans of yellow paint, 12 cans of blue paint

Sketch a double number line to represent the equivalent ratios and then solve the ratio problem.

6) A recipe for a batch of cupcakes calls for 5 cups of white sugar and 2 cups of butter. A baker wants to make a larger quantity by using 10 cups of white sugar instead. How many cups of butter should he use?



4 cups of butter

Solve each ratio problem.

7) A recipe for a batch of banana muffins calls for 6 cups of flour and 1 cup of butter. A baker wants to make 2 batches. How many cups of flour and how many cups of butter should he use?

12 cups of flour, 2 cups of butter

8) A recipe for a batch of bagels calls for 5 cups of flour and 3 teaspoons of yeast. A baker wants to make a larger quantity by using 25 cups of flour instead. How many teaspoons of yeast should he use?

15 teaspoons of yeast

9) Find the ratio equivalent to 6:7 that results when both terms are multiplied by 2.

12:14

10) Find the missing term that makes 3:2 and □:16 equivalent ratios.

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