

MeTEOR Performance Task

Sixth Grade

Mathematics
Ratios and Recipes

Performance Task Item: Ratios with Recipes

Task/Question 1:

- A.** Simplify this fraction, $12/16$:

- B.** Define Unit Rate:

- C.** Write an equivalent fraction for $1/2$:

Task/Question 2:

This is Amy's box of candies.
She ate 6 pieces from this box.

●	●	●

- A.** Create a ratio showing the amount of the candies that Amy has eaten?
- B.** Rewrite the ratio in simplest form.

This is Valerie's box of candies.
Valerie wants to share her candy with Cindy.
She gives Cindy 1 candy for every 3 candies she eats herself.

●	●	●	●
●	●	●	●
●	●	●	●

- C.** What fraction of the candies has Valerie eaten?
- D.** Rewrite the fraction as a ratio in simplified form.

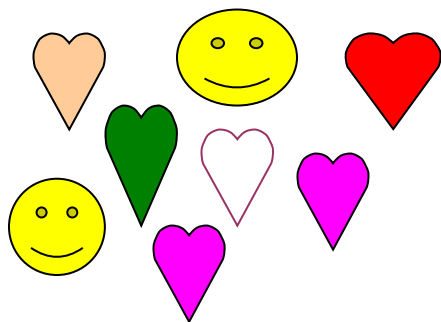
This is Anthony's box of candies.
Anthony wants to share his candy with Johnny.
He gives Johnny 1 candy for every 4 candies he eats.

	●	●		●	●	●
●		●	●	●	●	●
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- E.** Create a ratio showing the amount of the candies has Anthony eaten?
- F.** Rewrite the ratio in simplified form.

Task/Question 3:

- A.** Complete the Picture showing a ratio of Hearts to Smiley Faces as 4 to 6. You CANNOT remove any of the hearts or smiley faces in the picture; you can only add to them or leave the amount the same. Defend your rational for drawing more figures.



- B.** Complete the table showing the ratio in Part A of this task by entering all ratios up to 20 Hearts.

Hearts	Smiley Faces
4	6
	18
20	

Task/Question 4:

Ratio Brownies



MMMMM... Brownies



Prep
25 m

Cook
25 m

Ready In
1 h

Recipe By: cicada77

"Best brownies I've ever had!"

Ingredients

1/2 cup white sugar	1/2 teaspoon vanilla extract
2 tablespoons butter	2/3 cup all-purpose flour
2 tablespoons water	1/4 teaspoon baking soda
1 1/2 cups semisweet chocolate chips	1/2 teaspoon salt
2 eggs	

Directions

- 1 Preheat the oven to 325 degrees F (165 degrees C). Grease an 8x8 inch square pan.
- 2 In a medium saucepan, combine the sugar, butter and water. Cook over medium heat until boiling. Remove from heat and stir in chocolate chips until melted and smooth. Mix in the eggs and vanilla. Combine the flour, baking soda and salt; stir into the chocolate mixture. Spread evenly into the prepared pan.
- 3 Bake for 25 to 30 minutes in the preheated oven, until brownies set up. Do not overbake! Cool in pan and cut into squares.

A. This recipe serves 16 people. Rewrite the ingredients in the recipe to serve **twice** as many people. Defend your mathematical changes.

B. This recipe serves 16 people. Rewrite the ingredients in the recipe to serve **half as many** people. Defend your mathematical changes.

Task/Question 5:

- A.** Find and prepare any family recipe adjusting it to $\frac{3}{4}$ of the original.

Create a presentation that documents the original recipe, adjusted $\frac{3}{4}$ recipe, and your family enjoying the finished product!



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