

Fraction Recipe Project

Task

You are having a get together and are expecting 30 guests. You plan on serving Banana Bread, Chocolate Chip Cookies, and Sugar Cookies.

- Using the three recipes given, work with your group to create recipe cards to feed 30 people.
- Next, total up the ingredients needed.
- Then, check to see how much of each product needs to be purchased based on what is already on hand.
- Finally, create a display of your project that showcases your group's creativity.

Instructions

Complete each problem in order. Put a check in the box beside the number once complete. Each group member will perform all work and record in your notebook.

1. Use your knowledge of fractions to re-write the recipe for Banana Bread. The card states that it serves 10 people. What will need to be done in order to make enough bread for 30 people? Write the original recipe, and then re-write the recipe on a sheet of loose leaf paper.

Banana Bread

3 bananas

$\frac{1}{3}$ cup melted butter

$\frac{2}{3}$ cup sugar

1 egg

$\frac{3}{4}$ teaspoon vanilla

$\frac{1}{2}$ teaspoon baking soda

$1\frac{1}{2}$ cups flour

Serves 10 people.

2. Use your knowledge of fractions to re-write the recipe for Chocolate Chip Cookies. The card states that it makes 60 cookies. What will need to be done in order to make 30 cookies? Write the original recipe, and then re-write the recipe on a sheet of loose leaf paper.

Chocolate Chip Cookies

$2\frac{1}{2}$ cups flour

1 tsp. baking soda

$\frac{3}{4}$ teaspoon salt

1 cup butter

$\frac{3}{4}$ cup sugar

1 tsp. vanilla

2 eggs

$\frac{3}{4}$ pound of Chocolate Chips

Makes 60 cookies.

3. Use your knowledge of fractions to re-write the recipe for Sugar Cookies. The card states that it serves 20 people. What will need to be done in order to make enough to serve 30 people? Write the original recipe, and then re-write the recipe on a sheet of loose leaf paper.

Sugar Cookies

$\frac{1}{2}$ cup butter

$1\frac{1}{3}$ cup sugar

$\frac{1}{4}$ teaspoon baking soda

1 large egg

$\frac{1}{2}$ teaspoon vanilla

$1\frac{1}{2}$ cups all purpose flour

Serves 20 people.

4. Use your new recipe cards to find the total amount of each ingredient needed. Use the table below to help you. Some recipes don't use all the ingredients.

Ingredient	Recipe 1 + 2 + 3 (Don't forget to find common denominators before adding.)	Total needed (Be sure to simplify any fractions.)
Flour		
Sugar		
Butter		
Vanilla		
Baking Soda		
Eggs		
Salt		
Chocolate Chips		
Bananas		

5. When taking inventory in the pantry, you found that you already have some of the ingredients. Use the following table to organize your work. Don't forget common denominators.

HINT: If you need 5 eggs and you already have 2, how many do you need to buy? Write a number sentence to describe this situation. Which operation did you use? Use the same method to solve for the other ingredients. Don't forget common denominators.

Ingredient	Total needed from above	Already in Pantry	Needs to be bought
Flour		3 $\frac{1}{2}$ cups	
Sugar		2 cups	
Butter		$\frac{3}{4}$ cup	
Vanilla		2 teaspoons	
Baking Soda		1 $\frac{1}{2}$ teaspoons	
Eggs		2	
Salt		1 teaspoon	
Chocolate Chips		$\frac{1}{4}$ pound	
Bananas		4	

Collaboration

Compare your three recipes within your group. Everyone should have the same amounts. If a measured ingredient varies, look at the work to determine where the error was made. Then compare the table with total ingredients. Again, the table should look identical. Compare your work to find any errors. Finally, compare the last table. Do the answers agree? Are all fractions simplified?

Conclusion

Create a poster to display your work. Include the three original and new recipes written on index cards, as well as the math work done to figure each new amount. Then include the table with the ingredient totals and the table with the amount to be purchased. Again, include the math on the poster. Finally, incorporate pictures and color to the poster to create a professional looking product.