Today, you will learn how to use <u>fractions</u> to reduce a recipe by multiplying!

(remember if you want to increase a recipe you actually divide using a fraction)

Get ready...you will be making a recipe this week to present to the class! YUMMY!!!



Take a look at the next recipe. Notice the original servings

**We want to make less or reduce the récipe



Cupcake Brownies Recipe Makes: 18 servings

Ingredients

1 cup butter, cubed

4 ounces semisweet chocolate

4 eggs

1-3/4 cups sugar

1 teaspoon vanilla extract

1 cup all-purpose flour

1-1/2 cups chopped pecans

We want to make only 12 cupcakes.



Cupcake Brownies Recipe photo by Taste of Home

Nutritional Facts

1 serving (1 each) equals 283 calories, 19 g fat (8 g saturated fat), 74 mg cholesterol, 117 mg sodium, 27 g carbohydrate, 1 g fiber, 3 g protein.

What if you only eat 3/4 of a cupcake? What would be your Nutritional Facts?

Here is what we do! 1) Take the original servings and make that number the denominator.

2) The numerator will be the new number of servings.

Numerator =123)Reduce or simplify (use GCF) $12 \div 6 = 2$ Denominator =18 $18 \div 6 = 3$ The proportion is 2/3!

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4) Take the simplified fraction and multiply all the ingredients, then simplify the answer.

Ingredients

1 cup butter, cubed

4 ounces semisweet chocolate

Show your work!

1 X 2/3= 2/3 cups of butter

4 X 2/3=2 2/3 oz of semi-sweet chocolate

4 eggs

1-3/4 cups sugar

1 teaspoon vanilla extract

1 cup all-purpose flour

1-1/2 cups chopped pecans

 $1 \frac{3}{4} \times \frac{2}{3} = \frac{11}{6} \text{ cups of sugar}$

2/3 teaspoon of vanilla

3 eggs

2/3 cups of flour 1 ½ X 2/3= 1 cup of pecans

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Ingredients

1 cup butter, cubed

4 ounces semisweet chocolate

4 eggs

1-3/4 cups sugar

1 teaspoon vanilla extract

1 cup all-purpose flour

1-1/2 cups chopped pecans

Multiply each!

We want to make only 12 cupcakes.



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Try the next one! Start with a fraction...

Just in case, if you had to increase the recipe, you do the same with the servings, but then you DIVIDE the ingredients.

Chocolate Baklava Recipe MAKES: 60 servings

Ingredients

1 package (16 ounces, 14-inch x 9-inch sheet size) frozen phyllo dough, thawed

1-1/4 cups butter, melted

1 pound finely chopped walnuts

1 package (12 ounces) miniature semisweet chocolate chips

3/4 cup sugar

1-1/2 teaspoons ground cinnamon

1 teaspoon grated lemon peel

SYRUP:

3/4 cup orange juice

1/2 cup sugar

1/2 cup water

1/2 cup honey

We want to make only 24 servings.



Chocolate Baklava Recipe photo by Taste of Home

Nutritional Facts

1 serving (1 piece) equals 186 calories, 12 g fat (4 g saturated fat), 12 mg cholesterol, 87 mg sodium, 19 g carbohydrate, 1 g fiber, 3 g protein.

What if you only eat 2 ¼ of the servings? What would be your Nutritional Facts?

2 tablespoons lemon juice

Did you find the simplified fraction from the servings?

24	•	12 =	2
60	÷	12 =	5

You will use 2/5 to multiply



Try a few ingredients!

Remember to simplify!

Sugar Butter

Honey

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Nutritional Facts

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Did you get...

½ cup of melted butter 3/5 cup of sugar 1/5 cup of honey

The recipes you will use are on the weebly page.

Please, read the instructions carefully Review your notes Make a plan to complete the recipe this week Make a chart for your presentation AND...



But you do the work!

Ask an adult for help, when you are at home!