Today, you will learn how to use fractions 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

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.


## Nutritional Facts

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

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 $=12$
Denominator $=18$
3)Reduce or simplify (use GCF)

$$
12 \div 6=2
$$

$18 \div 6=3$

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.


## Nutritional Facts

1 serving ( 1 each) equals 283 calories, 19 g fat (8 g saturated fat), 74 mg cholesteroll, 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?

# 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!

$1 \times 2 / 3=2 / 3$ cups of butter
$4 \times 2 / 3=\mathbf{2} \mathbf{2 / 3}$ oz of semi-sweet chocolate

3 eggs
$13 / 4 \times 2 / 3=11 / 6$ cups of sugar
2/3 teaspoon of vanilla
1 teaspoon vanilla extract
1 cup all-purpose flour

1-1/2 cups chopped pecans

2/3 cups of flour
$11 / 2 \times 2 / 3=1$ cup of pecans

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Cupcalie Erownies ficripe photo by Taste of Hame

## Nutritional Facts

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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

## We want to make only 24 servings.



Chocolote Boklova Recipe photo by Toste 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.

## $1 / 2$ cup honey

What if you only eat $21 / 4$ of the servings? What would be your Nutritional Facts?

[^0]
## Did you find the simplified

 fraction from the servings?

You will use $2 / 5$ to multiply

# Try a few ingredients! 

Remember to simplify!

Sugar
Butter
Honey

## Chocolate Baklava Recipe MAKES: 60 servings Ingredients

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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

## We want to make only 24 servings.



Chocolote Boklova Recipe photo by Toste 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.

1/2 cup honey
What if you only eat $21 / 4$ of the servings? What would be your Nutritional Facts?

[^1]
## Did you get...

## $1 / 2$ 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!


[^0]:    2 tablespoons lemon juice

[^1]:    2 tablespoons lemon juice

