Cooking in the Kitchen

Working with Fractions

When am I ever going to use this?

Using the concepts in this worksheet, you will be able to adjust recipe ingredients to make a larger or smaller batch of cookies.

A

favorite chocolate chip cookie recipe of our family is shown below.

Oatmeal Chocolate Chip Cookies

11/2 cups sugar

2 cups brown sugar

4 cubes of butter

4 eggs beaten

2 Tablespoons vanilla

21/2 cups flour

2 cups wheat flour

2 cups oatmeal

1/2 cup oat bran

1 teaspoon salt

1½ teaspoon soda

4 cups chocolate chips

Míx ingredients. Spoon onto cookie sheet.

Bake at 350 degrees for 9 minutes.

As shown in the recipe, various units of measure (teaspoons, tablespoons, cups) are used in making the cookies.

1. If we cut the recipe in half, how many cups of chocolate chips and how many cups of flour will be needed?



	-cup measure is us will the ½-cup m						al recipe, how	many
the otl	ay to compare two her. Calculate the s. (Hint: You may	ratio of sugar	to brown s	ugar in t	he original			
4. We wa use all	nt to make as ma of the oatmeal, h	ny cookies as p ow much suga	possible bur r and how	t only ha	ave 3 cups o t bran will w	f oatmeal we need?	available. If we	e plan to

Worksheet Title	Cooking in the Kitchen: Multiplying Fractions					Filename:	m1002
Keywords	Cookies, chocolate, recipe, fractions, multiplying fractions, ratio, mixed fractions, improper fractions						
NCTM Standard		Content Standards		Process Standards			ds
	X	Number and Operations		X	Problem Sol	ving	
		Algebra		X	Reasoning a	nd Proof	
		Geometry		X	Communicat	tion	
	X	Measurement			Connections		
		Data Analysis and Probability			Representati	ons	
Data Type	Words						

License Agreement

At The Make It Real Learning Company, our goal is to provide quality instructional materials at a price that even an entry-level teacher can afford. By complying with this license agreement, you help us reach that goal. We thank you for your support.

Acceptable Use

This worksheet may be freely distributed. Share it with your students, colleagues, friends, and family. Make as many copies of it as you want and give it to whomever you please.

Prohibited Use

You may not sell this worksheet.

If you are not a paid subscriber, we invite you to subscribe to gain access to a library of worksheets that answer the question, "When am I ever going to use this?" Subscribe at www.makeitreallearning.com. Thanks.





Worksheet 10-02 Ratio recipes

Adjust the list for Gas to make enough for 30 people.

2 Stuffed Peppers		
1 teaspoon baking powder	1	
30 mL hot water		***************************************
1 cup mashed banana		
1 large egg	<u> </u>	
1 cup castor sugar		
$\frac{1}{2}$ cup butter		
pinch of salt	7	
$1\frac{1}{2}$ cups plain flour		
Ingredients for 10 muffins	Ingredients for 30 muffins	
1 Banana Muffins A recipe gives the following ingredien Adjust the quantities so it will make 30		
1 Benene Milen		
Judy and Gas decide to have a party to ce they have to cater for 30 people. Help the are using.		

$\frac{1}{2}$ cup grated cheese	
pinch of oregano	
pinch of basil	
200 mL tomato sauce	
125 g mushrooms	
4 green peppers ¹ / ₂ onion, chopped	
375 g salami	
56 g thin spaghetti	
Ingredients for 4	Ingredients for 30

Gas's Italian stuffed peppers are always popular. These ingredients are for four people.

30 people.
uice and $1\frac{1}{2}$ cups of sugar. Calculate the ingredients needed to make enough lemonade for
To make lemonade for about eight people, you need 4 lemons, 6 cups of water, 1 cup of lemon

3 Judy's coleslaw, when made for four people, uses $\frac{1}{4}$ cabbage, $\frac{1}{2}$ cup grated carrot, $\frac{1}{2}$ cup shallots and 5 tablespoons of dressing. Work out how much of each ingredient is needed to serve 30 people.

