

RATIOS AND PROPORTIONS RECIPE PROJECT



You will apply ratios and proportions to help you convert a recipe to serve more people.

You have found your favorite recipe for a dessert or appetizer and want to bring it to the class party. The problem is your recipe doesn't serve enought people. Use proportions to increase the recipe to serve all the people in class including your teacher. Make 1 serving per person.

For this project you will need to:

- 1. Choose one recipe from the internet, cookbook or home.
- 2. The recipe must have at least 8 ingredients, must have the number of portions it makes (must serve greater than 4 people and less than 10).
- 3. Use proportions to increase the recipe to serve the number of people in your class, including your teacher (1 serving per person).
- 4. Create a brochure that includes the following: (*Use attached table to assist you*)
 - Original Recipe
 - Ratio for one serving,
 for example: if the recipe uses 1 cup of sugar, and the recipe serves 8, the ratio for one serving equals 1/8 c. sugar (THINK UNIT RATE!)
 - Proportion used to increase recipe to number of servings to give one portion to each
 person in the class including the teacher. For example, if there were 30 people in class
 than 1/8 servings=x/30 servings
 - Show ALL work to solve proportion.
 - Round your measurements to the nearest **half** (i.e. 3.222 teaspoons, rounds to 3 teaspoons, 3.666 teaspoons rounds to 3 ½ teaspoons).
 - Scaled Recipe

 Ingredient and new amount needed to give one serving per person in class.
 - Explain the math you used to solve this problem. Your strategies!

	ions how to ma	ke the recipe.	Rai	6th Grade M tios & Proportions Pi Mr.
	eative! Use draw	wings, pictures, etc. to	o demonstrate you	ır knowledge of ratios
			redit: Make the	new recipe for the c
Table - Proportion Original Recipe s		e a Recipe New Recipe serve	es (# of people in	class):
Original Recipe Ingredients	Ratio for one serving	Proportion used to increase recipe to serve classmates	Work to solve proportion	Scaled Recipe- Amount needed to feed class
1 Cup Sugar (serves 8)	1/8	1=x 8 30	$\frac{8x}{8} = \frac{30}{8}$	3 ¾ Cups of Sugar

DO NOT USE THIS SPACE!

TYPE ON A SEPARATE SHEET OF PAPER

PRINT AND TURN IN WITH YOUR RECIPE



Rubric for Recipe Project

	0-9	10-14	15-19	20
Using Proportions	proportions to increase a recipe	Set up proportions that are incorrect for increasing a recipe	Correctly set up proportions to increase a recipe with 1-2 minor errors.	Correctly set up proportions to increase a recipe.
Using Cross Products or Equal Ratios	proportions. More		cross products or equal ratios to	Demonstrate the ability to use cross products or equal ratios efficiently and accurately to solve proportions. No errors in cacluations.
Increasing A Recipe	flawed calculation of the amounts needed to increase a recipe. Does not round correctly to	amounts needed to increase a recipe that contains some	amounts needed to	Includes an accurate and complete calculation of the amounts needed to increase a recipe. Correctly rounded measurements to nearest half.
Conceptual Understanding	solving proportions that shows little understanding of	Describes strategies for setting up and solving proportions that shows some understanding of the concepts.	Describes strategies for setting up and solving proportions that show a good understanding of the concepts.	Describes strategies for setting up and solving proportions that show a strong understanding of the concepts.
Brochure Presentation	both organization and required information. Brochure looks messy and is difficult to		Organized brochure with all required information. Overall appearance looks good.	Creative, neat, organized poster with all required information, at least 8 ingredients, typed, with pictures or drawings.

Total Points	=
Total possible pe	oints 100