

I Need a Larger Recipe!

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 that your recipe doesn't serve enough people. Use proportions to increase the recipe to serve all of the people in your class including your teacher. Make enough for 1 serving per person.



For this project you will need to:

- A. Choose one of the recipes from among those provided.
- B. Use proportions to increase the recipe to serve the 36 people in seventh grade, including your teacher (1 serving per person).
- C. Create a brochure that includes the following: (Use attached table to assist you)
 1. Original Recipe
 2. 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 $\frac{1}{8}$ c. sugar (think unit rates)
 3. Proportion used to increase recipe to number of servings to give one portion to each person in the class including the teacher.
 4. **Show ALL work to solve proportions.**
 5. Round your measurements to the nearest HALF (i.e. 3.222 teaspoons, rounds to 3 teaspoons, 3.666 teaspoons rounds to $3\frac{1}{2}$ teaspoons).
 6. Scaled Recipe – Ingredients and new amounts needed to give one serving per person in class.
 7. Directions on how to make the recipe. (Mixing instructions, cook time, preheat temperature, etc.)
 8. Be creative! Use drawings, pictures, etc. to demonstrate your knowledge of ratios and proportions.

Project Rubric

	Kitchen Assistant (1)	Line Cook (2)	Sous Chef (3)	Executive Chef (4)
Using Proportions	Fails to use 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, Equal Ratios, or "the fish"	Fails to use cross products or equal ratios to solve proportions. More than 5 errors and/or missing work	Use of cross products or equal ratios to solve proportions, however contains 3-5 errors	Reasonably uses cross products or equal ratios to solve proportions. Only 1-2 minor errors	Demonstrates the ability to use cross products or equal ratios efficiently and accurately to solve proportions. No errors in calculations
Increasing the recipe	Includes a significantly flawed calculation of the amounts needed to increase a recipe. Does not round correctly to the nearest half	Includes a calculation of the amounts needed to increase a recipe that contains some errors. Inaccurately rounded some measurements	Includes a reasonable calculation of the amounts needed to increase a recipe rounded to nearest half with only a couple of minor errors	Includes an accurate and complete calculation of the amounts needed to increase a recipe. Correctly rounded measurements to the nearest half.

