

B. Rational Numbers Project

Chocolate Chip Cookie Conundrum

Information: Below is a picture of the Nestle Toll House Chocolate Chip Cookies recipe. This recipe makes 5 dozen cookies. Mr. Fujii had 162 students last year. Mr. Fujii was trying to make enough cookies for each student to have 2 cookies.

Instructions:

1. First, what ratio will you use to convert from the small recipe to the new recipe? Show all work and explain your steps.
2. Rewrite the recipe to show the amount of each ingredient Mr. Fujii needed in order to make exactly 2 cookies for each of his 162 students. Show all work needed to convert each ingredient. Explain your steps. How do you know that your ingredient amounts are reasonable?
3. $48 \text{ tsp.} = 1 \text{ cup.}$ $4 \text{ eggs} = 1 \text{ cup.}$ Calculate the minimum volume (in cups) that your mixing bowl must hold in order to fit all of your ingredients. Show all work and explain your steps.
4. Type all of your steps into a report, and attach a separate sheet of paper with your work.
5. This project is due on Friday, October 18.

