

Recipe Remix

5th Grade Math Project · Food & Cooking

Grade 5 · Advanced

Name: _____ Date: _____ Class: _____

The Challenge

Welcome to the Cooking Club! Today you will change a recipe to feed different numbers of people and share food fairly.

You will make: Recipe Card Set

What you will learn

- Multiply fractions and mixed numbers
- Explain multiplication as scaling
- Interpret fractions as division
- Divide whole numbers by unit fractions

Materials

- Pencil
- Recipe card template
- Measuring cups (optional)

How to do it

1. Part 1: Make More
2. Part 2: Make Less
3. Part 3: Fair Shares
4. Part 4: Servings
5. Check your work and share your recipe card set.

Part 1: Make More

Multiply each ingredient by $2\frac{1}{2}$.

Ingredient	Original	× $2\frac{1}{2}$
flour	$2\frac{1}{4}$ cups	
sugar	$\frac{2}{3}$ cup	
milk	$1\frac{1}{4}$ cups	

1. flour: $2\frac{1}{4} \times 2\frac{1}{2}$

2. sugar: $\frac{2}{3} \times 2\frac{1}{2}$

3. milk: $1\frac{1}{4} \times 2\frac{1}{2}$

Part 2: Make Less

Make half of the recipe.

4. flour: $2\frac{1}{4} \times \frac{1}{2}$

5. sugar: $\frac{2}{3} \times \frac{1}{2}$

6. Is half a recipe more or less than the original? Why?

Part 3: Fair Shares

7 pans of cornbread are shared equally by 3 friends.

7. How much does each friend get?

8. Between which two whole numbers is that?

Part 4: Servings

You have 6 cups of trail mix. Each serving is $\frac{1}{8}$ cup.

9. How many servings can you make?

10. Check with multiplication.

⭐ Extension Challenge

Write your own recipe with 4 ingredients and scale it by $2\frac{1}{2}$. Show each product.

How your project will be scored

Category	4 Excellent	3 Good	2 Developing	1 Beginning
Math accuracy	All answers correct	Most answers correct	Some answers correct	Few answers correct
Shows work	Clear work for every step	Work for most steps	Some work shown	Little work shown
Explains thinking	Clear, complete explanations	Mostly clear explanations	Some explanation	Little explanation
Final product	Complete, neat and creative	Complete and neat	Partly complete	Not complete