

Recipe for a Crowd

4th Grade Math Project · Cooking & Food

Grade 4 · Advanced

Name: _____ Date: _____ Class: _____

The Challenge

Your class is going on a hike, and you are making the trail mix. The recipe makes one small batch, so you need fraction math to make enough for everyone.

You will make: Recipe Card

What you will learn

- Add and subtract fractions and mixed numbers with like denominators.
- Multiply a fraction by a whole number.
- Write tenths and hundredths as decimals and add them.
- Compare decimals to hundredths.

Materials

- Measuring cups (optional)
- Fraction strips or number line
- Index card for the recipe

How to do it

1. Part 1: One Batch
2. Part 2: Batches for the Class
3. Part 3: Weighing with Decimals
4. Part 4: Smart Shopping
5. Check your work and share your recipe card.

Part 1: One Batch

One batch of trail mix uses these amounts (in cups).

Ingredient	oats	raisins	seeds
Cups	$1\frac{5}{8}$	$\frac{7}{8}$	$\frac{5}{8}$

1. How many cups of trail mix does one batch make? Show the addition.

2. How much more oats than seeds is in one batch?

3. A bowl holds 4 cups. How much room is left after one batch is poured in?

Part 2: Batches for the Class

The class needs 6 batches.

4. How many cups of oats are needed? Write a multiplication equation.

5. Show the same amount as repeated addition.

6. Between which two whole numbers of cups is your answer?

Part 3: Weighing with Decimals

The scale shows $\frac{6}{10}$ kilogram of nuts and $\frac{8}{100}$ kilogram of chocolate chips.

7. Write each weight as a decimal.

8. Add the two weights. First rename the tenths as hundredths.

9. Which ingredient is heavier? Explain.

Part 4: Smart Shopping

Brand A raisins weigh 1.4 kilogram. Brand B raisins weigh 1.38 kilogram. Both cost the same.

10. Compare the decimals. Write >, < or =.

11. Which brand gives you more raisins? Explain using hundredths.

12. Write your recipe card for the whole class. Show each amount as a fraction or mixed number.

⭐ Extension Challenge

A friend says $6 \times \frac{7}{8}$ must be more than 6 because multiplying makes numbers bigger. Is the friend correct? Explain with a model or equation.

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