

Multiplying & Dividing Fractions with Recipes

Name: _____ Date: _____

LEARNING OBJECTIVE

Students will multiply and divide fractions by scaling a recipe up and down.

MATERIALS NEEDED

- a simple recipe (from a cookbook, box, or printed online, at least 4 ingredients with fraction amounts)
- notebook paper
- pen or pencil
- measuring cups (optional, for hands-on check)

HANDS-ON ACTIVITY

1. Find or write out a simple recipe with at least 4 ingredients that use fractional amounts (e.g., $\frac{3}{4}$ cup flour, $\frac{1}{3}$ cup sugar, $\frac{1}{2}$ tsp salt, $\frac{2}{3}$ cup milk).
2. Calculate the ingredient amounts needed to make a double batch (multiply every amount by 2) and write the new list.
3. Calculate the ingredient amounts needed to make a half batch (multiply every amount by $\frac{1}{2}$, which is the same as dividing by 2) and write that list too.
4. Choose one ingredient and physically measure out both the doubled and halved amounts side by side using measuring cups to see the size difference.

QUESTIONS

1. **If a recipe calls for $\frac{3}{4}$ cup of flour, how much is needed for a double batch? Show your multiplication.**
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2. **If the same recipe calls for $\frac{1}{3}$ cup sugar, how much is needed for a half batch? Show your work.**
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3. **Write the full doubled recipe list you calculated.**
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4. Explain why dividing by 2 gives the same result as multiplying by $\frac{1}{2}$.
