

Name: Class:

Addition and subtraction of fractions with unlike denominators in recipes

1. Sakinah is making french toast for breakfast. If she wants to add $\frac{2}{5}$ of a fraction to all the ingredients that are measured in fractions in the recipe, what amount of those ingredients does she need?

Bread toast ingredients

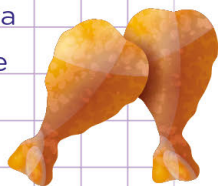
2 large egg whites	1 large egg	$\frac{3}{4}$ cup low-fat (1-percent) milk)
$\frac{1}{2}$ teaspoon salt	$\frac{1}{4}$ teaspoon vanilla extract	



2. Mrs. Laurence wants to make Kentucky fried chicken for her family. Study the recipe below and answer the following questions.

Kentucky fried chicken ingredients

$3\frac{1}{4}$ pounds chicken parts	2 packages italian salad dressing mix.	$1\frac{1}{2}$ cups pancake mix
$3\frac{1}{2}$ tablespoons flour	2 teaspoon salt	1 teaspoon paprika
$\frac{1}{4}$ cup lemon juice	2 tablespoons butter room temperature	$\frac{1}{2}$ teaspoon sage
1 cup milk	$\frac{1}{4}$ teaspoon peper	



- a. How many more teaspoons sage than peper does she need?
- b. If she wants to add $\frac{1}{3}$ to each ingredient of the original recipe, what amount of each ingredient in the recipe will she need?

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Bread toast ingredients

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 $\frac{1}{2}$ teaspoon salt $\frac{1}{4}$ teaspoon vanilla extract



Let's solve this by adding $\frac{2}{5}$ to each ingredient that is measured in fraction in the recipe.

Add $\frac{2}{5}$ to $\frac{3}{4}$ cup low-fat milk: $\frac{2}{5} + \frac{3}{4} = \frac{8 + 15}{20} = \frac{23}{20} = 1\frac{3}{20}$ cup low-fat milk

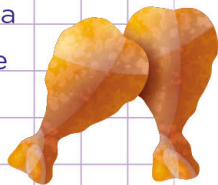
Add $\frac{2}{5}$ to $\frac{1}{2}$ teaspoon salt: $\frac{2}{5} + \frac{1}{2} = \frac{4 + 5}{10} = \frac{9}{10}$ teaspoon salt

Add $\frac{2}{5}$ to $\frac{1}{4}$ teaspoon vanilla extract: $\frac{2}{5} + \frac{1}{4} = \frac{8 + 5}{20} = \frac{13}{20}$ teaspoon vanilla extract.

2. Mrs. Laurence wants to make Kentucky fried chicken for her family. Study the recipe below and answer the following questions.

Kentucky fried chicken ingredients

$3\frac{1}{4}$ pounds chicken parts 2 packages italian salad dressing mix. $1\frac{1}{2}$ cups pancake mix
 $3\frac{1}{2}$ tablespoons flour 2 teaspoon salt 1 teaspoon paprika
 $\frac{1}{4}$ cup lemon juice 2 tablespoons butter room temperature $\frac{1}{2}$ teaspoon sage
1 cup milk $\frac{1}{4}$ teaspoon peper



- a. How many more teaspoons sage than pepper does she need?

quantity of sage needed = $\frac{1}{2}$ teaspoon

quantity of pepper needed = $\frac{1}{4}$ teaspoon

So, quantity of more sage than pepper needed = $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$

- b. If she wants to add $\frac{1}{3}$ to each ingredient of the original recipe, what amount of each ingredient in the recipe will she need?

When we add $\frac{1}{3}$ to each ingredient, then we have :

Kentucky fried chicken ingredients

$3\frac{7}{12}$ pounds chicken parts $2\frac{1}{3}$ packages italian salad dressing mix. $1\frac{5}{6}$ cups pancake mix
 $3\frac{5}{6}$ tablespoons flour $2\frac{1}{3}$ teaspoon salt $1\frac{1}{3}$ teaspoon paprika
 $\frac{7}{12}$ cup lemon juice $2\frac{1}{3}$ tablespoons butter room temperature $\frac{5}{6}$ teaspoon sage
 $1\frac{1}{3}$ cup milk $\frac{7}{4}$ teaspoon peper