

## Father's Day Breakfast Surprise

This Sunday is Father's Day. I looked up a recipe for something that I'm sure that my dad will love and I'm going to surprise him. I already bought the fresh blueberries and I'm going to make blueberry muffins. This is going to be great.

But ... I couldn't find any measuring cups in the kitchen. I could only find a small cup that was marked  $\frac{1}{4}$  cup.

1. Here is my recipe. Would you please help me figure out how many of these little  $\frac{1}{4}$  cups to fill to make these muffins?

### Ingredients

- 2 cups fresh blueberries
- 2 and  $\frac{1}{2}$  cups all-purpose flour
- 4 teaspoons baking powder
- 1 teaspoon salt
- $\frac{1}{4}$  cup margarine
- 1- $\frac{1}{2}$  cups white sugar
- 2 eggs
- 1 teaspoon vanilla extract
- 1 cup milk

### Cooking Instructions

1. Preheat oven to 375 degrees F (190 degrees C). Grease 12 muffins tins, or line cups with paper liners.
2. Sprinkle  $\frac{1}{4}$  cup flour over blueberries, and stir to coat berries thoroughly.
3. In a small bowl, whisk together 2 cups flour, baking powder and salt.
4. In a large bowl, cream margarine, and gradually mix in sugar. Beat eggs, and stir into creamed mixture along with vanilla. Stir in milk alternately with flour mixture, mixing well after each addition. Fold in berries. Fill muffin cups  $\frac{2}{3}$  full with batter.

Bake for 25 minutes.

<http://recipes.kaboose.com/blueberry-muffins.html>

Ingredients	Number of $\frac{1}{4}$ cups or fraction of $\frac{1}{4}$ cups
flour	
blueberries	
baking powder	
salt	
margarine	
white sugar	
vanilla extract	
milk	
eggs	Don't have to measure in $\frac{1}{4}$ cups

Hint: 16 Tablespoons = 1 cup  
3 teaspoons = 1 Tablespoon

2. How many  $\frac{1}{4}$  cups would I need to use for any number (n) of cups of blueberries?

3. How would your answers (number of  $\frac{1}{4}$  cups needed for each item) in the table change if you only had a  $\frac{1}{2}$  cup measuring cup?

4. How would your answers (number of  $\frac{1}{4}$  cups needed for each item) in the table change if you only had a  $\frac{1}{8}$  cup measuring cup?