

Student Name _____

Bake Sale

Fred is baking cookies for a school bake sale.

Part 1

It takes $\frac{3}{4}$ of a cup of sugar to make one batch of cookies. Show your work when solving, include a drawing or equation.

1. How many cups of sugar does he need to double the recipe? _____

2. How many cups of sugar does Fred need to make $4\frac{1}{2}$ batches? _____

3. How many cups does he need to make 9 batches? _____

Part 2

Fred bakes 10 dozen cookies for the bake sale. He makes the following types of cookies:

- $\frac{1}{2}$ chocolate chip cookies
- $\frac{1}{4}$ peanut butter cookies
- $\frac{1}{8}$ sugar cookies
- $\frac{1}{8}$ oatmeal raisin cookies

4. How many of each type of cookie did Fred make? Show your work.

Chocolate Chip	
Peanut Butter	
Sugar	
Oatmeal Raisin	

5. Unfortunately, Fred had some trouble in the kitchen and $\frac{3}{5}$ of the peanut butter cookies were burned.

a. How many peanut butter cookies does Fred have left to sell? _____

b. Explain how you know this is correct.

Part 3

6. Fred, and his friend Sam, had a hard time resisting the cookies that the class next door baked. They were giant cookies instead of the smaller ones Fred and Sam made. Fred ate one-fourth of a giant chocolate chip cookie. He also ate three-eighths of a giant peanut butter cookie and one-half of a giant sugar cookie. Sam ate five-eighths of a chocolate chip cookie and he ate the other half of the sugar cookie. All of the giant cookies were the same size. Fred says he ate more than Sam because Sam did not eat any of the giant peanut butter cookie. Sam says they each ate the same amount of the giant cookies. Who is correct and why? Show all of your mathematical thinking, include drawings and equations.