Adding and Subtracting with Fractions Strips and Number Lines

Solve the following problems using fraction strips and number lines.

1.) The recipe for a cheese sauce requires $\frac{1}{3}$ cup of flour at the beginning and another $\frac{1}{8}$ cup of flour as the sauce is cooking. How much flour is required?

2.) Jane baked the muffins for $\frac{1}{4}$ of an hour on high and then another $\frac{1}{3}$ of an hour on a lower temperature. How long were the muffins in the oven total?

Adding and Subtracting with Fractions Strips and Number Lines

3.) Jerome is making a shepherd's pie. It asks for 1 cup of mashed potatoes. He put $\frac{5}{7}$ of a cup in the bowl. How much more mashed potatoes does he need to add to the recipe?

4.) This morning at the bakery, $\frac{1}{5}$ of the customers bought donuts and $\frac{1}{20}$ of the customers bought bagels. The rest just purchased a coffee. What fraction of the customers bought just coffee?

Adding and Subtracting with Fractions Strips and Number Lines

5.) Jana has three measuring cups full of sugar:
$\frac{1}{3}$ cup, $\frac{1}{4}$ cup, $\frac{1}{2}$ and cup.

a) Can Jana empty all three measuring cups into a 1 cup measuring cup? Explain.

b) How much sugar does Jana have in total?

6.) Joana needs $\frac{1}{6}$ cups of flour to make a dessert. Kent says that she should fill a $\frac{1}{2}$ cup measuring cup with flour first and then pour out enough to fill a $\frac{1}{3}$ cup measuring cup. He says $\frac{1}{6}$ cup of flour will be left over in the $\frac{1}{2}$ cup. Do you agree? Explain.

Adding and Subtracting with Fractions Strips and Number Lines

7.) Greta must put $\frac{3}{2}$ of a teaspoon of baking soda in her cake batter. How many $\frac{1}{4}$ teaspoons is that?

8.) Can the sum of two fractions equal the difference between the same two fractions? Explain.