Name _____ Date _____ Class _____

LESSON 5

Fraction Operations

Problem Solving: Multiplying Mixed Numbers

Use the recipe to answer the questions.

CHOCOLATE CHIP COOKIES Servings: 1 batch
$1\frac{2}{3}$ cups flour
$\frac{3}{4}$ teaspoon baking soda
$\frac{1}{2}$ cup white sugar
$2\frac{1}{3}$ cups semisweet chocolate chips
$\frac{1}{2}$ cup brown sugar
$\frac{3}{4}$ cup butter
1 egg
$1\frac{1}{4}$ teaspoons vanilla

1. If you want to make $2\frac{1}{2}$ batches, how much flour would you need?

2. If you want to make only $1\frac{1}{2}$ batches, how many cups of chocolate chips would you need?

3. You want to bake $3\frac{1}{4}$ batches. How much vanilla do you need in all?

Choose the letter for the best answer.

4. If you make $1\frac{1}{4}$ batches, how much baking soda would you need?

   A $\frac{3}{16}$ teaspoon C $\frac{3}{5}$ teaspoon

   B $\frac{5}{16}$ teaspoon D $\frac{15}{16}$ teaspoon

5. How many cups of white sugar do you need to make $3\frac{1}{2}$ batches of cookies?

   F $3\frac{1}{2}$ cups H $1\frac{1}{2}$ cups

   G $1\frac{3}{4}$ cups J $1\frac{1}{4}$ cups

6. Dan used $2\frac{1}{4}$ cups of butter to make chocolate chip cookies using the above recipe. How many batches of cookies did he make?

   A 3 batches C 5 batches

   B 4 batches D 6 batches

7. One bag of chocolate chips holds 2 cups. If you buy five bags, how many cups of chips will you have left over after baking $2\frac{1}{2}$ batches of cookies?

   F $4\frac{1}{6}$ cups H $2\frac{1}{3}$ cups

   G $5\frac{5}{6}$ cups J $\frac{1}{3}$ cups