Name:
Class:

Multiply fractions and mixed numbers by whole number in recipes
a. Tom intends to make chocolate caremels for his cousin Roy. He wants to make a reasonable quantity that he needs to tripple the recipe. If he tripples the recipe, what quantity of all the ingredients in the original recipe does he need?

Chocolate caramel: Ingredients
$-1 \frac{1}{2}$ tea spoon butter, softened $-\frac{1}{2}$ cup sugar
$-\frac{3}{4}$ cup light corn syrup

- 2 ounces unsweetened chocolate, chopped
$-1 \frac{1}{3}$ cups heavy whipping cream, divided
b. Yesterday, Rosemary quadriple a pumpkin pie recipe while making it. What quantity of each ingredient from the original recipe did she use

Pumpkin pie: Ingredients
$-1 \frac{1}{4}$ pillsbury refrigerated pie crust

- 2 eggs
$-\frac{3}{4}$ cup sugar
$-1 \frac{1}{2}$ teaspoons pumpkin pie spice
$-\frac{1}{2}$ teaspoon salt


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Chocolate caramel: Ingredients $-1 \frac{1}{2}$ tea spoon butter, softened $-\frac{1}{2}$ cup sugar
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- 2 ounces unsweetened chocolate, chopped
$-1 \frac{1}{3}$ cups heavy whipping cream, divided

To solve this, Tom needs to multiply each and every ingredient in the oringinal recipe by 3 inorder to tripple it.
$3 \times 1 \frac{1}{2}$ teaspoon butter, softened
$=3 \times 1 \frac{1}{2}=3 \times\left(\frac{1 \times 2+1}{2}\right)=\frac{3 \times 3}{2}=\frac{9}{2}$
$=4 \frac{1}{2}$ teaspoons of butter, softened
$3 \times \frac{1}{2}$ cup sugar
$=3 \times \frac{1}{2}=\frac{3 \times 1}{2}=\frac{3}{2}=1 \frac{1}{2}$ cup sugar
$3 \times \frac{3}{4}$ cup light corn syrup
$=\frac{3 \times 3}{4}=\frac{9}{4}=2 \frac{1}{4}$ cup light corn syrup
$3 \times 2$ ounces unsweetened chocolate,
chopped $=6$ ounces unsweetened chocolate,
chopped.
$3 \times 1 \frac{1}{3}$ cups heavy whipping cream, divide
$=3 \times \frac{1 \times 3+1}{3}=\frac{3 \times 4}{3}=\frac{12}{3}$
$=4$ cups heavy whipping cream, divided
b. Yesterday, Rosemary quadriple a pumpkin pie recipe while making it. What quantity of each ingredient from the original recipe did she use

Chocolate caramel: Ingredients
$-1 \frac{1}{4}$ pillsbury refrigerated pie crust
-2 eggs
$-\frac{3}{4}$ cup sugar
$-1 \frac{1}{2}$ teaspoons pumpkin pie spice $-\frac{1}{2}$ teaspoon salt

To solve this, Rosemary needs to multiply each and every ingredient in the original recipe by 4 inorder to quadriple it.
$4 \times 1 \frac{1}{4}$ pillsbury refrigerated pie crust
$=4 \times\left(\frac{1 \times 4+1}{4}\right)=\frac{4 \times 5}{4}=\frac{20}{4}=5$ pillsbury
refrigerated pie crust.
$4 \times 2$ eggs $=8$ eggs
$4 \times \frac{3}{4}$ cup sugar $=\frac{4 \times 3}{4}=\frac{12}{4}=3$ cups sugar
$4 \times 1 \frac{1}{2}$ teaspoons pumpkin pie spice
$=4 \times\left(\frac{1 \times 2+1}{2}\right)=\frac{4 \times 3}{2}=\frac{12}{2}=6$ teaspoons
pumpkin pie spice
$=4 \times \frac{1}{2}$ teaspoon salt $=\frac{4}{2}=2$ teaspoon salt

