## EXAMPLE 2 Using Order of Operations

There are 1950 calories in a cup of salad oil, 55 calories in an egg yolk, and 16 calories in a teaspoon of sugar. The other ingredients in the mayonnaise recipe are essentially calorie free. How many calories are in the mayonnaise recipe?


## SOLUTION

| 1.5 cups <br> of salad oil | 2 2 egg yolks | Quarter teaspoon <br> of sugar |
| :--- | :--- | :--- |
| Total calories | $=1.5(1950)+2(55)+0.25(16)$ |  |
|  | $=2925+110+4$ | Multiply. |
|  | $=3039$ |  |

Some historians say that mayonnaise originated in Bayonne, France, and was originally called bayonnaise.

There are 3039 calories in the recipe.

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The total number of teaspoons in the mayonnaise recipe is given by the expression below.

a. How many teaspoons are in the recipe?
b. How many calories are in a teaspoon of mayonnaise?

