Chocolate Chip Cookies Recipe

Recipe found here: <https://www.allrecipes.com/recipe/10813/best-chocolate-chip-cookies/>

Ingredients from Recipe:

* 1 cup butter, softened
* 1 cup white sugar
* 1 cup packed brown sugar
* 2 eggs
* 2 teaspoons vanilla extract
* 1 teaspoon baking soda
* 2 teaspoons hot water
* ½ teaspoon salt
* 3 cups all-purpose flour
* 2 cups semisweet chocolate chips
* 1 cup chopped walnuts

**DATA:**

**Constants:**

* BUTTER = 1 (cup)
* SUGAR = 1 (cup)
* BROWN\_SUGAR = 1 (cup)
* EGGS = 2
* VANILLA\_EXTRACT = 2 (teaspoons)
* BAKING\_SODA = 1 (teaspoon)
* HOT\_WATER = 2 (teaspoons)
* SALT = 0.5 (teaspoon)
* FLOUR = 3 (cups)
* CHOCOLATE\_CHIPS = 2 (cups)
* CHOPPED\_WALNUTS = 1 (cup)
* SERVINGS = 24 (48 cookies)

**Variables:**

* number\_of\_servings: Integer
* scaling\_factor: Float = number\_of\_servings / SERVINGS

What data is needed from user?

* Number of servings
* Number of cookies (1 serving = 2 cookies)

**Processing:**

The constants above list the required ingredient amounts for 24 servings. We need to find out how many cookies or servings the user wants and calculate how much we need to scale the ingredient amounts by. For example,

Current recipe = 24 servings

If the user wants 36 cookies, we need to find out what to multiply 24 by to get 36.

scaling\_Factor = 36 / 24 = 1.5.

So we multiply every ingredient amount by 1.5.

**Output: (Example)**

To make 24 servings, the following ingredient amounts are:

* 1 cup butter, softened
* 1 cup white sugar
* 1 cup packed brown sugar
* 2 eggs
* 2 teaspoons vanilla extract
* 1 teaspoon baking soda
* 2 teaspoons hot water
* 0.5 teaspoon salt
* 3 cups all-purpose flour
* 2 cups semisweet chocolate chips
* 1 cup chopped walnuts

Format everything to one decimal places using f”{:.1f}”