

Coconut and chocolate chip Passover macaroons

For Passover this year, I promised to bring macaroons to my friend's Seder. There will be only 6 of us this year. I've written my recipe below so that you can help me figure out how much of the recipe I need to make.



- 5 cups flaked sweetened coconut
- 3 egg whites
- 1/2 cup sugar
- 1/4 tsp. vanilla
- 2/3 cup mini chocolate chips or finely chopped chocolate

Preheat oven to 325 degrees. Lightly grease cookie sheets. Mix all ingredients together in a large bowl. Scoop out 1-inch mounds, placed about 1 inch apart, on your cookie sheet. Bake for 15 minutes, until just turning brown. Cool and store in a sealed container between sheets of waxed or parchment paper. The macaroons will keep nicely for several days. Variation: Divide the coconut mixture in half, and add the chips to one half, leaving the other half plain. Makes about 64 macaroons.

1. I'd guess that each person would eat at most 4 macaroons. How many macaroons might be eaten?

Maybe I should cut the recipe down and make fewer cookies.

2. Half of the recipe should make how many cookies?
3. Calculate the amount of each ingredient I should use to make $\frac{1}{2}$ of this recipe.

- _____ cups flaked sweetened coconut
- _____ egg whites
- _____ cups sugar
- _____ tsp. vanilla
- _____ cups mini chocolate chips or finely chopped chocolate

My friend informed me that this is still way too many cookies. I will cut the recipe down even more.

4. Calculate the amount of each ingredient I should use to make $\frac{1}{4}$ of the original recipe.

- _____ cups flaked sweetened coconut
- _____ egg whites
- _____ cups sugar
- _____ tsp. vanilla
- _____ cups mini chocolate chips or finely chopped chocolate

5. How many cookies will this make?

6. How did you find $\frac{1}{4}$ of the original recipe? That is, what math did you do to find $\frac{1}{4}$ of the original amount of each ingredient?

I don't know what my friend was thinking. I want to make more cookies than $\frac{1}{4}$ of the recipe. I want to make around 50 cookies, so I think I will make $\frac{3}{4}$ of the original recipe, which will make 48 cookies.

7. Calculate the amount of each ingredient I should use to make $\frac{3}{4}$ of the original recipe.

_____ cups flaked sweetened coconut

_____ egg whites

_____ cups sugar

_____ tsp. vanilla

_____ cups mini chocolate chips or finely chopped chocolate

8. How did you find $\frac{3}{4}$ of the original recipe? That is, what math did you do to find $\frac{3}{4}$ of the original amount of each ingredient?

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1. This recipe makes 5 dozen cookies. How many is that?
2. I'd guess that each person will eat at most 4 macaroons. How many macaroons might be eaten?

Maybe I should cut the recipe in half and make fewer cookies.

3. Half of the recipe should make how many cookies?
4. Calculate the amount of each ingredient I should use to make $\frac{1}{2}$ of this recipe.

___ cups flaked sweetened coconut
___ egg whites
___ cups sugar
___ tsp. vanilla
___ cups mini chocolate chips or finely chopped chocolate

My friend wants me to triple the recipe for her since she is going to a dinner with lots of people tomorrow night and there will be a lot of young children at that Sedar.

5. Rewrite the ingredients and calculate the appropriate quantities for a tripled recipe.
___ cups flaked sweetened coconut
___ egg whites
___ cups sugar
___ tsp. vanilla
___ cups mini chocolate chips or finely chopped chocolate

6. How many macaroons will the tripled recipe make?

7. Can you think of an expression that would let me easily calculate how many cookies 4 timesing, 5 timesing, and 100 timesing the recipe would make?

8. What math are you doing over and over again to the ingredients regardless of the number of times greater you make the recipe?

9. N timesing the recipe would make how many macaroons?

10. Create an ingredient's list for increasing my recipe N times.

_____ cups flaked sweetened coconut

_____ egg whites

_____ cups sugar

_____ tsp. vanilla

_____ cups mini chocolate chips or finely chopped chocolate