

**TOPIC 1: Using Ratios – Block 10 Homework**

1. You have a recipe for coconut cookies. The recipe makes 20 cookies. You need 100 cookies for a bake sale. **Increase the recipe proportionally to make 100 cookies.**

Makes 20 cookies	Makes 100 cookies
2 egg whites	
$\frac{1}{2}$ teaspoon vanilla	
$\frac{2}{3}$ cup sugar	
$\frac{1}{4}$ teaspoon salt	
$1\frac{1}{3}$ cups coconut	

2. The ratio of the number of boys to the number of girls at your school is 5 to 8. Which statements are accurate according to this ratio? **Circle yes or no next to each possible answer.**

If a class has 16 girls it is reasonable to expect there are 10 boys in the same class.	Yes	No
In a group of 52 students about 20 are boys.	Yes	No
The ratio of girls to total students is 8 to 13.	Yes	No
The Algebra class has 24 girls and 16 boys. This is the same ratio as girls to boys in the school.	Yes	No
If there are 208 students in the school it is reasonable to expect there are 128 girls.	Yes	No

3. Evy is making salsa for a large party. Her salsa recipe calls for 2 cups of diced tomatoes, 1 cup of diced onion, and  $\frac{1}{4}$  cup of cilantro. She plans to make 13 cups of salsa. Which of the following statements are true? Circle true or false for each statement.

The recipe normally makes 4 cups of salsa.	True	False
The recipe normally makes 3.25 cups of salsa.	True	False
To make 13 cups of salsa, Evy should increase the recipe by a scale factor of 4.	True	False
To make 13 cups of salsa, Evy should increase the recipe by a scale factor of 3.25.	True	False
To make 13 cups of salsa, Evy will need 1 cup of cilantro.	True	False

4. Randall is a computer technician at a large corporation. He estimates that 10,400 emails are sent by the employees in a work day (8 hours). The rate of sending emails is roughly the same throughout the day. How many emails are sent in a half hour?
5. At Ferndale High School, 11 out of 20 high school seniors have a part-time job. This ratio is the same at Blaine High School, which has 480 seniors. How many seniors at Blaine High School have a part-time job?