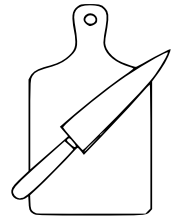


Name _____ Date _____ Class ID _____

Making Salsa: Proportional Reasoning



You are making Salsa for a party. The original recipe is below.

3 cups chopped tomato, 1 cup diced onion, $\frac{1}{2}$ cup chopped bell pepper, $\frac{1}{4}$ cup minced cilantro, 6 teaspoons lime juice, 4 teaspoons chopped jalapeño, $\frac{3}{4}$ teaspoon cumin, $\frac{1}{2}$ teaspoon salt.

Part 1: Scaling the Recipe

One friend suggests doubling the recipe. Another suggests tripling it. A third suggests making 2.5 times the original. Choose one option and calculate the new amounts. You may use the fraction bar to help you figure out the fractions.

1 Whole			
$\frac{1}{2}$		$\frac{1}{2}$	
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

Which option do you choose? _____



Show your work:

New Ingredient amounts:

Tomato _____ Onion _____ Bell Pepper _____ Cilantro _____

Lime Juice _____ Jalapeño _____ Cumin _____ Salt _____



Explain your reasoning:

Part 2: Shopping Smart

You have salt, cumin, jalapeño, and lime juice at home. You need to buy the other four ingredients. They're available in these sizes and prices:

Ingredient	Small	Medium	Large
Chopped Tomato	\$2.25/2 cups	\$4.00/4 cups	\$9.00/10 cups
Chopped Onion	\$1.00/1.5 cups	\$2.50/4 cups	\$5.00/10 cups
Chopped Bell Pepper	\$0.80/0.5 cups	\$1.25/1 cup	\$2.50/ 2 cups
Minced Cilantro	\$0.60/0.25 cups	\$1.00/0.5 cups	\$1.75/1 cup

Find the lowest total cost while minimizing waste. Show your calculations below, then record your purchasing decisions in the table.



Show your work:

Record your purchases:

Ingredient	Small	Med	Large	Total Cost	Waste
Tomatoes					
Onions					
Bell Peppers					
Cilantro					



Explain your reasoning:

Part 3: More Proportional Reasoning

Choose one option from the following to pursue. Answer the question and write 2 to 5 sentences explaining your thinking and answer referring to your calculations.

Option 1: The party grows! If 1 batch of the original salsa recipe serves 8 people, how many batches of that recipe would you need for 40 people? How many cups of tomatoes would you need for that many people?

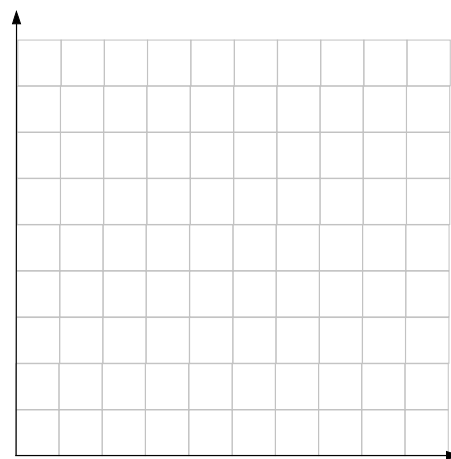
Option 2: The original recipe makes 4 cups of salsa. 1 cup = 48 tablespoons. Each chip holds 1.5 tablespoons of salsa. There are 100 chips in a bag. How many bags should you buy?

Option 3: You are asked to make the salsa for the dance. Write an equation that shows the relationship between the onions and the cilantro so that the salsa always tastes the same. Use your equation to prove how much cilantro you would need if you used 20 cups of onions. Draw and properly label a graph showing the relationship between the two amounts.



Show your work:

Grid for Option 3



Go to the next page to write your explanation for Part 3



(Part 3) Explain your reasoning:

Part 4: Evaluation

Self-Evaluation: Rate yourself on your effort, accuracy, and level of challenge today.

Effort	I didn't work very hard today.	I was off-task some of the time.	I was focused most of the time.	I worked steadily all period.
Belief in Accuracy	I don't think my answers are correct.	Some of my work is correct.	Much of my work is correct.	Most of my work is correct.
Challenge	I didn't challenge myself.	I limited my challenges today.	I challenged myself today.	I pushed myself.

In the space below, summarize the math you did today in 4-8 sentences. What sort of patterns did you notice? You may use words such as: **ratio, rate, unit rate or price, proportion or proportional, scale, constant, or slope** if you think it would help you explain things. You do not have to use them. Refer to specific examples in your work to support your summary.