

Name _____

Date _____

Math _____

Math Journal Writing
Math Group

Problem: Jenny invited seven of her friends to a party. She will need to change her recipe for making salsa to feed all of her friends.

Salsa Recipe: (Serves four)

1 large onion

2 cans whole tomatoes, crushed

1 $\frac{1}{2}$ jalepeno peppers, seeded

$\frac{3}{4}$ Tablespoon ground cumin

$\frac{1}{2}$ bunch cilantro

2 cloves garlic

$\frac{1}{4}$ teaspoon salt

1 Tablespoon Olive Oil

Explore: I know that...

I know that each recipe serves four. I also know Jenny needs to feed eight people, therefore she will need to double the recipe.

Jenny needs to determine how much of each ingredient she needs to serve eight people.

Plan: First, I will...

First I will determine how many recipes of salsa Jenny needs to make to feed eight by dividing 8 by 4.

Next, I will multiply each ingredient by 2 to find the total amount of each ingredient needed to serve eight.

I estimate Jenny will need 2 onions, 4 cans of tomatoes, 4 jalepenos, 2 Tbs. cumin, 2 bunches of cilantro, 4 cloves of garlic, 1 tsp. salt, and 2 Tbs. of oil. I got my estimate by rounding the numbers up to the nearest whole number, then multiplying that by 2.

Solve:

Number of recipes needed

$$\frac{8}{4} = 2 \text{ recipes}$$

Total ingredients needed

Onions, $2 \times 1 = 2$

Tomatoes, $2 \times 2 = 4$ cans

Jalepenos, $2 \times 1.5 = 3$

Cumin, $2 \times 0.75 = 1.5$ Tbs.

Cilantro $2 \times 0.5 = 1$ bunch

Garlic, $2 \times 2 = 4$ cloves

Salt, $2 \times 0.25 = 0.5$ tsp.

Oil, $2 \times 1 = 2$ Tbs.

Jenny needs 2 onions, 4 cans of tomatoes, 3 jalepenos, 1.5 Tbs. cumin, 1 bunch of cilantro, 4 cloves of garlic, 0.5 tsp. of salt, and 2 Tbs. of oil.

Examine:

My answer makes sense, since each amount is less than our estimates (since we rounded up each time).