

High School:

Labor Day Cookout

Coleslaw is a traditional side dish for family barbeques as it pairs nicely as a side but also as a condiment on sandwiches. Table 1 provides a list of ingredients to make 8 servings of coleslaw.

Table 1: Coleslaw Ingredients

Name of Ingredient	Amount Needed
Mayonnaise	1 cup
Sugar	6 Tablespoons
Cider Vinegar	$\frac{1}{4}$ cup
Salt	1.5 teaspoons
Pepper	1 teaspoon
Cabbage	1 small head (2 pounds)
Carrots	2 large carrots (about 5 ounces)
Vidalia Onion	1 small (about 6 ounces)

1. Margaret has 20 people attending her family cookout. Margaret only has $\frac{1}{2}$ cup of cider vinegar. How much more cider vinegar does she need to make the correct number of servings for her cookout? Justify your answer.

2. Cabbage cost 70¢ per pound. Write an equation to represent the cost (y) for x number of pounds of cabbage.

Equation	
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3. Steve is organizing the community cookout. There will be 68 people in attendance describe how the coleslaw recipe needs to change to make enough servings for each attendee. Be specific and tell the amount of at least 3 of the ingredients needed.
