Worksheet 10-02 — Ratio recipes

Judy and Gas decide to have a party to celebrate writing their book. When all the RSVPs are in, they have to cater for 30 people. Help them by working out the correct quantities for the recipes they are using.

1 Banana Muffins

A recipe gives the following ingredients for making 10 banana muffins.
Adjust the quantities so it will make 30 muffins.

Ingredients for 10 muffins	*Ingredients for 30 muffins*
$1\frac{1}{2}$ cups plain flour	_____
pinch of salt	_____
$\frac{1}{2}$ cup butter	_____
1 cup castor sugar	_____
1 large egg	_____
1 cup mashed banana	_____
30 mL hot water	_____
1 teaspoon baking powder	_____

2 Stuffed Peppers

Gas's Italian stuffed peppers are always popular. These ingredients are for four people.
Adjust the list for Gas to make enough for 30 people.

Ingredients for 4	*Ingredients for 30*
56 g thin spaghetti	_____
375 g salami	_____
4 green peppers	_____
$\frac{1}{2}$ onion, chopped	_____
125 g mushrooms	_____
200 mL tomato sauce	_____
pinch of basil	_____
pinch of oregano	_____
$\frac{1}{2}$ cup grated cheese	_____

3 Judy's coleslaw, when made for four people, uses $\frac{1}{4}$ cabbage, $\frac{1}{2}$ cup grated carrot, $\frac{1}{2}$ cup shallots and 5 tablespoons of dressing. Work out how much of each ingredient is needed to serve 30 people.

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4 To make lemonade for about eight people, you need 4 lemons, 6 cups of water, 1 cup of lemon juice and $1\frac{1}{2}$ cups of sugar. Calculate the ingredients needed to make enough lemonade for 30 people.

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Worksheet 10-02   Ratio recipes *continued*

Answers

1 $4\frac{1}{2}$ cups flour, 3 pinches salt, $1\frac{1}{2}$ cups butter, 3 cups castor sugar, 3 eggs, 3 cups banana, 90 mL water, 3 teaspoons baking powder.

2 420 g spaghetti, 2813 g salami, 30 peppers, $3\frac{3}{4}$ onions, 938 g mushrooms, 1500 mL tomato sauce, basil and oregano to taste, $3\frac{3}{4}$ cups cheese.

3 $1\frac{7}{8}$ cups cabbage, $3\frac{3}{4}$ cups carrot, $3\frac{3}{4}$ cups shallots, $37\frac{1}{2}$ tablespoons of dressing.

4 15 lemons, $22\frac{1}{2}$ cups water, $3\frac{3}{4}$ cups lemon juice, $5\frac{5}{8}$ cups sugar.