DETERMINING THE QUANTITIES OF FOOD NEEDED FROM THE FOOD BUYING GUIDE USING THE FORMULA

Using Your Calculator
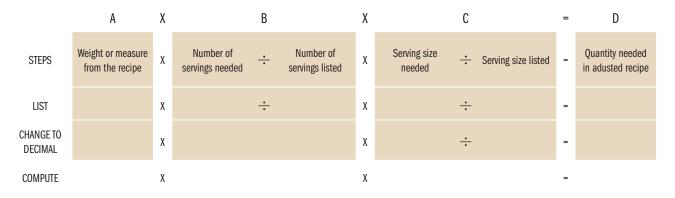- When you see the sign X in the formula, you should multiply.
- When you see the sign ÷ in the formula, you should divide.
- Always put the decimal point in your calculator.
- If you end up with more than three numbers after the decimal on your calculator, round to the third number.
- If your calculator does not have a tape, record the answers at each step.
- Enter numbers into your calculator in this order: left to right.
- Round numbers after you have finished the formula.

Step 1: Decide the number of servings of the recipe needed (the yield) and the serving size needed.

# of servings needed: _____ (transfer to Part B below)

serving size needed: _____ (transfer to Part C below)

Step 2: Use the formula to determine the quantity of each ingredient that will be needed for the new yield.
Write down your calculations for each step of the formula for each ingredient in the recipe.

THE FORMULA

	A	X	B		X	C		=	D
STEPS	Weight or measure from the recipe	X	Number of servings needed	÷ Number of servings listed	X	Serving size needed	÷ Serving size listed	=	Quantity needed in adusted recipe
LIST		X	÷		X	÷		=	
CHANGE TO DECIMAL		X			X	÷		=	
COMPUTE		X			X			=	

Step 3: Always round up to the nearest practical measure.
Your school district Order Guide or purchasing specifications give information on the size of purchase units.

Quantity needed (from Part D above): _____ = Nearest practical measure: _____

* This formula was developed with the guidance of Dr. Eldon L. Miller, Professor of Mathematics, University of Mississippi

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Example of Use
The formula can be used to determine the amount to purchase for
more than 100 servings of a food and for less than 100 servings.

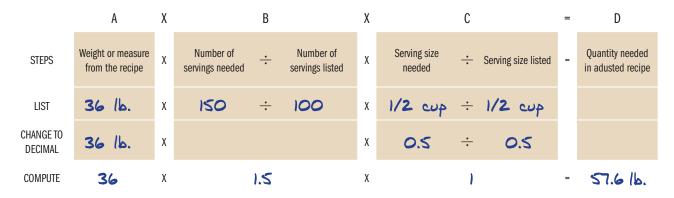**Example to determine the amount to purchase for less than 100 servings:**
Determine the amount to purchase in order to serve 150 1/2-cup servings of Orange Smiles MS1270.

Step 1: Decide the number of servings of the recipe needed (the yield) and the serving size needed.

# of servings needed: _____150_____ (transfer to Part B below)

serving size needed: _____1/2-cup_____ (transfer to Part C below)

Step 2: Use the formula to determine the quantity of each ingredient that will be needed for the new yield.
Write down your calculations for each step of the formula for each ingredient in the recipe.

THE FORMULA

	A	X	B			X	C			=	D
STEPS	Weight or measure from the recipe	X	Number of servings needed	÷	Number of servings listed	X	Serving size needed	÷	Serving size listed	=	Quantity needed in adusted recipe
LIST	36 lb.	X	150	÷	100	X	1/2 cup	÷	1/2 cup		
CHANGE TO DECIMAL	36 lb.	X				X	0.5	÷	0.5		
COMPUTE	36	X	1.5			X	1			=	57.6 lb.

Step 3: Always round up to the nearest practical measure.
Your school district Order Guide or purchasing specifications give information on the size of purchase units.

Quantity needed (from Part D above): _____57.6 lb_____ = Nearest practical measure: ___57 lb 10 oz___

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