Task Title: Lasagna Portion Cost Card

OALCF Cover Sheet – Practitioner Copy

Learner Name: _____

Date Started: _____

Date Completed: _____

Successful Completion: Yes ☐ No ☐

Goal Path: Employment ☐ Apprenticeship ☒

Secondary School ☐ Post Secondary ☐ Independence ☐

Task Description: The learner will use a recipe cost card to calculate the cost per serving of lasagna.

Main Competency/Task Group/Level Indicator:

- Find and Use Information/Interpret documents/A2.2
- Understand and Use Numbers/Manage money/C1.2
- Understand and Use Numbers/Use measures/C3.2
- Use Digital Technology/D.2

Materials Required:

- Pen/pencil and paper
- Computer or digital device
- Calculator or digital device with calculator function (optional)

Learner Information

Cooks prepare catering budgets including expenses for the amount of food in different size containers.

Scan the "Portion Cost Card" for lasagna.

Portion Cost Card

Name of Recipe: Lasagna Date:

Number of Portions: 70 Cost: 1.17 Reference:

RECIPE		INGREDIENT	INVOICE		CONVERTED	RECIPE		EXTENSION	
AMT	UNIT		COST	UNIT	UNITS	COST	UNIT		
6	lb	**ground beef**	54.32	20lbs		2.72	lb		16.32
36	oz	**tomato sauce**	22.74	252oz		0.09	oz		3.24
36	oz	**tomato paste**	21.10	180oz		0.117	oz		4.21
57	g	**salt**	40.02	1000g		0.04	g		2.28
42	g	**oregano**	7.85	500g		0.016	g		0.672
30	g	**onion salt**	16	475g		0.034	g		1.02
48	oz	**cottage cheese**	4.95	50oz		0.099	oz		4.75
12	cloves	**garlic**	15.96	36ea		0.44	cloves		5.28
6	ea	**onions**	13.65	25ea		0.546	ea		3.28
1	kg	**parmesan cheese**	8.95	2 kg		4.48	kg		4.48
3	boxes	**lasagna noodles**	22.87	12boxes		1.91	boxes		5.73
6	ea	**eggs**	33.07	180		0.18	ea		1.1
3	kg	**moz. Cheese**	99.52	10kg		9.95	kg		29.85
							TOTAL		**82.212**

Work Sheet

Task 1: The cook is preparing for a wedding that will have 300 guests. Rounding to the nearest pound, calculate how many pounds of ground beef the cook will require for the lasagna.

Answer:

Task 2: Calculate the cost for garlic required to make 300 portions. Remember to calculate the cost based on whole cloves.

Answer:

Task 3: Open a new web browser on the computer. Conduct a search for a metric-to-imperial conversion calculator. Calculate how many litres (L) of tomato sauce are needed to make 300 portions. Round your answer to one decimal place.

Answer:

Answers

Task 1: The cook is preparing for a wedding that will have 300 guests. Rounding to the nearest pound, calculate how many pounds of ground beef the cook will require for the lasagna.

Answer: 26 pounds

One possible solution:
The ratio is portions : pounds (lb)
70 portions : 6 lb = 300 portions : 'x' lbs
Cross multiply
70x = 300 x 6
70x = 1800
Solve for 'x' by dividing each side by 70
x = 25.71 (round up to nearest pound)

A second possible solution:
300/70 x 6lbs = 25.71 lbs (round up to nearest pound)

Task 2: Calculate the cost for garlic required to make 300 portions. Remember to calculate the cost based on whole cloves.

Answer: $22.88

One possible solution
Calculate number of cloves of garlic needed
The ratio is portions : cloves
70 portions : 12 cloves = 300 portions : x cloves
Cross multiply
70x = 12 x 300
70x = 3600
Solve for 'x' by dividing each side by 70
X = 51.42 (round up to 52 cloves)
Calculate cost
52 cloves x $0.44 each = $22.88

A second possible solution:
300/70 x 12 = 51.42 = 52 x $0.44 = $22.88

Task 3: Open a new web browser on the computer. Conduct a search for a metric-to-imperial conversion calculator. Calculate how many litres (L) of tomato sauce are needed to make 300 portions. Round your answer to one decimal place.

Answer: 4.6 litres

One possible solution: Calculate the number of ounces needed for 300 portions, then convert:

The ratio is portions : ounces (oz.)
70 portions : 36 oz = 300 portions : x
Cross multiply: 70x = 36 x 300
70x = 10800

Solve for 'x' by dividing each side by 70: X = 154.28 (round up to 155 oz.)
The formula for calculating ounces (oz.) to litres is:

1 oz. = 0.0296 L
155 oz. X 0.0296 = 4.588 litres (round to 4.6 litres)

A second solution: Convert ounces to litres, then calculate:

36 x .0296 = 1.0656 L
70 portions : 1.0656 L = 300 portions : x L
Cross multiply: 70x=300*1.656
x = 319.68/70
x = 4.566 (round to 4.6 L)

Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
A2.2	performs limited searches using one or two search criteria			
	extracts information from tables and forms			
	uses layout to locate information			
	makes connections between parts of documents			
	makes low-level inferences			
C1.2	calculates using numbers expressed as whole numbers, fractions, decimals, percentages and integers			
	chooses and performs required operation(s); may make inferences to identify required operation(s)			
	selects appropriate steps to reach solutions			
	represents costs and rates using monetary symbols, decimals and percentages			
	interprets, represents and converts amounts using whole numbers, decimals, percentages, ratios and simple, common fractions (e.g. ½, ¼)			

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
C1.2 cont'd	uses strategies to check accuracy (e.g. estimating, using a calculator, repeating a calculation, using the reverse operation)			
C3.2	calculates using numbers expressed as whole numbers, fractions, decimals, percentages and integers			
	understands and uses ratio and proportion			
	converts units of measurement within the same system and between systems			
	chooses and performs required operation(s); may make inferences to identify required operation(s)			
	selects appropriate steps to solutions			
	interprets, represents and converts measures using whole numbers, decimals, percentages, ratios and simple, common fractions (e.g. ½, ¼)			
D.2	selects and follows appropriate steps to complete tasks			
	locates and recognizes functions and commands			

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
D.2 cont'd	makes low-level inferences to interpret icons and text			
	begins to identify sources and evaluate information			
	performs simple searches using keywords (e.g. internet, software help menu)			

This task: Was successfully completed ☐ Needs to be tried again ☐

Learner Comments:

Instructor (print): _____

Learner (print): _____