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OALCF Tasks for the Apprenticeship Goal Path: Prepared for the Project, *Developing Best Practices for Increasing, Supporting and Retaining Apprentices in Northern Ontario (2014)*

OALCF Task Cover Sheet

Task Title: Lasagna Portion Cost Card

Learner Name:
Date Started: **Date Completed:**   **Successful Completion:**   Yes___   No___
Goal Path: Employment___ Apprenticeship ✓ Secondary School___ Post Secondary ___ Independence___
Task Description: Use a costing card to calculate the cost of a recipe per serving.

Competency:	Task Group(s):
A: Find and Use Information C: Understand and Use Numbers D: Use Digital Technology	A2: Interpret documents C1: Manage money C3: Use measures D: Use Digital Technology

Level Indicators: A2.2:   Interpret simple documents to locate and connect information   C1.2:   Make low-level inferences to calculate costs and expenses that may include rates such as taxes and discounts.   C3.2:   Use measures to make one-step calculations   D2:   Perform well-defined, multi-step digital tasks
Performance Descriptors: see chart on last page
Materials Required: • Pencil and paper   • Calculator – optional   • Computer with internet access   • Lasagna Cost Card - attached

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Task Title: Lasagna Portion Cost Card

Cooks prepare catering budgets including expenses for the amount of food in different size containers.   Look at the Lasagna Portion Cost Card.

Learner Information and Tasks:

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.

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

Task 3:   Use the internet to locate 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.

Portion Cost Card

Name of Recipe: <u>Lasagna</u>   Date:

Number of Portions: 70   Cost: 1.17   Reference:

RECIPE		INGREDIENT	INVOICE		CONVERTED UNITS	RECIPE		EXTENSION
AMT	UNIT		COST	UNIT		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

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Answer Key

Task 1:   **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

Task 2:   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:   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.)

Convert ounces to litres using the internet

Open the internet

Use a search engine, such as Google, and search "litres to ounces calculator"

The formula for calculating ounces (oz.) to litres is:

1 oz. = 0.0296 L

     155 oz. X 0.0296 = 4.588 litres (Round up to **4.6 litres** as required)

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**)

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	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)			
	• 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)			
D2	• selects and follows appropriate steps to complete tasks			
	• locates and recognizes functions and commands			
	• 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 Signature**