

School of Access Academic and Career Foundations Department

MATH 037 Math for Professional Cook Program

Recommended Math Videos

	Unit R- Arithmetic Review (no calculator)	Video Links to Unit R material
R1	Place value	Comparing place value
		Place Value (1)
		Place Value (2)
		Place Value (3)
R2	Comparing numbers	Less than and greater than <, >
172	Companing numbers	Comparing decimals
		Comparing decimals, smallest to greatest
R3	Rounding numbers	
110	Rounding numbers	Rounding whole numbers (1)
		Rounding whole numbers (2) Rounding whole numbers (3)
R4	Adding and subtracting whole	
1.14	Adding and subtracting whole numbers and decimals	Why carrying works in addition
		Add 3-digit numbers with carrying
		Addition with carrying practice
		Borrowing/regrouping to subtract (1)
		Borrowing to subtract (2)
		Borrowing to subtract (3) Borrowing to subtract (4)
		Borrowing to subtract (4)
		Decimals on a number line
		Rounding decimals (1)
		Rounding decimals (1)
		Comparing decimals
		Adding decimals
२५	Multiplying whole numbers	Multiplication explained (1)
	and	Multiplication explained (2)
	decimals	Times tables chart patterns
		Multiplication facts x 1, 2, 3, 4, 5, 6, 7, 8, 9
		Multiplication facts x 10, 11, 12
		How to multiply
		Ways to show multiplication
		Multiplying with multiples of 10
		Multiplying 2-digit numbers (1)
		Multiplying 2-digit numbers (1) Multiplying 2-digit numbers (2) Multiplying larger numbers
		Multiplying 2-digit numbers (1) Multiplying 2-digit numbers (2) Multiplying larger numbers Multiplication practice questions
		Multiplying 2-digit numbers (1) Multiplying 2-digit numbers (2) Multiplying larger numbers Multiplication practice questions Multiplication estimation
		Multiplying 2-digit numbers (1) Multiplying 2-digit numbers (2) Multiplying larger numbers Multiplication practice questions Multiplication estimation Multiplying decimals: how to
		Multiplying 2-digit numbers (1) Multiplying 2-digit numbers (2) Multiplying larger numbers Multiplication practice questions Multiplication estimation Multiplying decimals: how to Multiplying decimals example
		Multiplying 2-digit numbers (1) Multiplying 2-digit numbers (2) Multiplying larger numbers Multiplication practice questions Multiplication estimation Multiplying decimals: how to Multiplying decimals example Multiplying decimals by power of 10
		Multiplying 2-digit numbers (1) Multiplying 2-digit numbers (2) Multiplying larger numbers Multiplication practice questions Multiplication estimation Multiplying decimals: how to Multiplying decimals example Multiplying decimals by power of 10 Multiply decimals example question
R6	Powers – repeated	Multiplying 2-digit numbers (1) Multiplying 2-digit numbers (2) Multiplying larger numbers Multiplication practice questions Multiplication estimation Multiplying decimals: how to Multiplying decimals example Multiplying decimals by power of 10 Multiply decimals example question
R6	Powers – repeated multiplication (Exponential notation)	Multiplying 2-digit numbers (1)Multiplying 2-digit numbers (2)Multiplying larger numbersMultiplication practice questionsMultiplication estimationMultiplying decimals: how toMultiplying decimals exampleMultiplying decimals by power of 10Multiply decimals example question

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R13	Dividing fractions	Division that results in a fraction
	, , , , , , , , , , , , , , , , , , ,	Dividing fractions
		Fraction Division: multiply by reciprocal
		Dividing mixed numbers
		Dividing Fractions and writing with division symbol
		Dividing fractions word problem (1)
		Dividing fractions word problems (2)
		Dividing fractions word problems (3)
		Dividing fractions word problem (4)
		Dividing fractions word problems (5)
R14	Converting fractions and	Converting from fractions to decimals
	decimals	Converting decimals to fractions (1)
		Converting decimals to fractions (2)
		Converting decimals to fractions (3)
		Converting decimals to fractions (4)
		Converting decimals to fractions (5)
		Converting decimals to fractions (6)
		Converting fractions to decimals (1)
		Converting fraction to a decimal (2)
		Converting a fraction to a repeating decimal
R15	Estimation	Estimating a multiplication question
		Estimating a decimal
		Rounding decimals on number line
		Practice rounding decimals on the number line
Lipit P. Prostier		

Unit R Practice and Review Test 1 Unit R (no calculator)

	Course Mater	ial (From Strianese & StrianeseText)	
	The second te	st covers chapters 1-4 (pp. 3-92)	
Chapter 1 (pp. 3-29)	Using the Calculator	Video Links for Course Material	
	 Find sums, differences, products and quotients 	Basic functions of calculator Rounding decimals (1)	
	2. Solve problems by using chain calculations	Add and subtract chain calculations	
	3. Multiply or divide repeatedly using the constant function	How to multiply and divide by a <u>constant</u>	
	 Find sums and differences by using a percent 	Add sales tax Calculate discounted price	
	5. Find products and quotients by using a percent	Multiply by a percentage	
	6. Solve problems using the memory function	How to use memory functions of Sharp calculator	
	 Use the plus/minus key to convert a positive number to a negative number and vice versa 		
Chapter 2 (pp33-43)	Numbers, Symbols of Operations and the Mill		
	1. Read and write numbers	Understanding place value Where to place commas in large numbers Writing checks Writing out numbers in words 1 Write numbers as words 2	
	 Idenify Symbols for four basic operations (+,-,x,÷) 		

	 Identify the mill and use it in solving problems 	Round to the nearest cent Round to nearest penny How to round
	 Understand reasoning for rounding up in food service operation 	Rounding up
Chapter 3 (pp.45-65)	Addition, Subtraction, Multiplication and Division	
	1. Find sums	Setting up vertical addition Add 3-digit numbers with carrying Check addition by subtracting
	2. Find differences	Minuend, subtrahend and difference Borrowing/regrouping to subtract (1) Borrowing to subtract (2) Borrowing to subtract (3)
	3. Check subtraction by adding	Check subtraction answer by adding
	4. Find products using the multiplication table	Multiplication table tips
	5. Use a step-by-step procedure to find products	Long multiplication with carrying
	 Check the accuracy of the multiplication product Find quotients 	Tips to multiplication Multiply whole number by 10, 100, 1000
		Division is reverse of multiplication Division is breaking something up into groups of a certain size Division: how to Division explained (1) Division explained (2) Long division
	8. Find the remainder	Division with remainder
	 Check the accuracy of the division quotient 	Check division answer with multiplication
Chapter 4 (pp.67-92)	Fractions, Decimals, Ratios, and Percents	Understanding fractions
(pp.01-32)	 Simplify a fraction in lower terms without changing the value 	Intro to using math in food industry Numerator and denominator explained Converting improper fractions into mixed numbers Converting mixed numbers into improper fractions (1) Fractions in lowest terms Practice simplifying fractions
	 Add, subtract, multiply and divide fractions 	Adding fractions with like denominators Add fractions different denominators Find least common denominator Multiplying fractions) Fraction Division: multiply by reciprocal
	3. Change fractions to decimals	Intro to decimals Common fractions and decimal equivalents Reading decimals
	4. Write decimals and mix decimal fraction in words	Write decimals as words
	5. Write numbers as decimals	Change mixed fractions to decimals
	 Find sums, differences, products and quotients in decimal problems 	Adding decimals Subtract decimals Multiplying decimals: how to Dividing to get a decimal answer

7. Solve problems by using given ratios	<u>So many times as much</u> <u>Intro to cross multiplication</u> <u>Solving proportions using cross-multiplying</u> <u>Solving proportions, Three methods</u> <u>Using proportions to solve different questions</u>	
8. Write common fractions as percents	Convert fractions to percent using division Percents greater than 100% and less than 1% Some common fractions as percents	
 Write percents as common fractions, whole numbers or mixed numbers 	What are percents Solve percents using ratios and cross multiply Change percents to fractions	
10. Find the percents of meat cuts	Find percent of total by multiplying by decimal	
Test 2 Summary and Review Chapters 1-4 (pp. 3-92) Test 2		

The Third test covers chapters 5 & 6 (pages 93- 130)		
Weights and Measures and the Metric System		Video Links for Course Material
Chapter 5	Weights and Measures	Intro to measuring for restaurant
	1. Identify the equivalent measures commonly used in food service	Common abbreviations of weights and measurements in food prep
	2. Find equivalent measures	Gallon, quarts, pints and cups How to memorize volume measurements song Measuring and Gallons, quarts, pints, cups
	3. "As Purchased (AP) and Edible Portion (EP)	As purchased (AP) versus Edible Portion (EP)
	4. Identify abbreviations of weights and measures	Abbreviations for culinary measures
	5. Use a baker's balance scale	How to measure for baking How many teaspoons (t) in a Tablespoon (T)
	 Demonstrate how to convert decimal weights into ounces 	How to convert measurements using cross multiplication Converting pounds to ounces 1 Converting pounds to ounces 2
	 Identify different types of portion scales (dial and digital) 	The portion scale The digital scale
	 Be able to explain difference between fluid ounces and avoirdupois ounces 	How to pronounce "avoirdupois" Meaning of avoirdupois (imperial) Using a weight scale (scaling) in a kitchen Fluid ounces versus avoirdupois ounces
Chapter 6	Using the Metric System of Measure	Why the metric system by Bill Nye
	1. Recite the basic units of measure of metric system	Intro to measurement and the metric system Move decimal right or left for metric conversions Converting between metric units

2. Compute length using meters	Comparing metric units of length Metric length measurements Convert metric lengths cm to m	
3. Compute mass or weight using kilograms or grams	<u>Converting kilograms to grams</u> <u>How much is a gram or a kilogram practice</u> questions	
4. Compute volume using liters	Metric system using volume (litres etc)	
5. Compute temperature using degrees Celsius	Celsius & Farenheit conversionUsing formula to convert Celsius temperature to FarenheitCelsius & Farenheit conversionComparing Farenheit and Celsius temperaturesFormula convert Celcius temperature to FarenheitQuick tips to convert Celcius to Farenheit	
6. Recognize the increase in the use of metrics in the US food service industry		
7. Change measurements from customary system to metric system	Converting metric to imperial (10 cm to inches) Kilograms to pounds using cross multiplication	
8. Find the cost of food and beverage products using metric system		
Test 3 Summary and Review Chapters 5 and 6 (pp. 93-130)		

Test 3

	Test Four covers chapter 7 (pp. 131-157)			
Portion Co	ontro	l	Video Links for Course Material	
Chapter 7	1.	Identify methods for controlling portion size	Intro to portion control Examples of portion controls	
	2.	Identify portion size	Some basic serving sizes	
	3.	Find cost per serving Identify portion sizes	How to cross multiply Cross multiply Convert pounds to ounces Pounds to ounces Cost per ounce Price per ounce Intro to different scoop size	
		using scoops and ladles	Scoop sizes Scooping ice cream tips Ladle size	
	5.	Identify and find amounts of food to prepare		
	6.	Define and identify the terms EP (Edible Portion) and AP (As Purchased)	Define Edible portion, As purchased and Yield Calculate EP EP, AP and Yield AP, EP and Yield Determine EP cost from AP cost	

	7. Find the approximate	Calculate number of servings
	number of serving	Number of servings
	portions 8. Find the amount of food	
	to order	Calculate how much to purchase based upon amount served
	9. Find the amount of cost per portion	Calculate food cost
	10. Be able to conduct and determine yield test	Calculating yield
Test 4 Summ	ary and Review	
Test 4		
	Test Five (covers	chapter 8 pp. 159-180)
Converting I	Recipes, Yields, and Baking	Video Links for Course Material
Formulas		
Chapter 8	1. Find the work factor to	Converting Recipe
	2. Convert standard	Convert standard recipes using
	recipes from larger to	working factor (New divided by Old)
	smaller amounts, or	Using Yield to adjust recipe
	from smaller to larger	Adjusting a recipe
	3. Find approximate recipe yields	
	4. Use ratios and	How to change a recipe
	proportions to convert	Using ratios and proportions in
	ingredients for recipes	cooking
	5. Find percents for	Understanding baker's percentage
	baker's percentage	
Test 5 Summa	ry and Review	
Test 5 Practice	Test	
Test 5		
. <u></u>		
	Test Six	(covers chapter 9 pp. 181-200)
Food, Rec	ipe and Labour Costing	
Chapter 9	1. Define Food costs	Food cost
	2. Define labour costs	Intro to labour costs
	 Calculate the unit costs o individual items 	f Calculate unit cost by division
	4. Define a standard recipe	What is a standard recipe?
	5. Recognize the importance	AP versus EP calculations
	of AP versus EP in determining cost per oz	
	6. Calculate recipe cost	Calculating extension cost of ingredients
	charts to determine the	
	extension costs of recipes	
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	7. Calculate recipe cost	Calculate portion costs after considering waste
	charts to determine the	Calculate perior costs after considering waste
	yield costs of recipes	
	8. Identify and calculate the costs of labor	Labour cost percentage
	9. Calculate gross and overtime wages	Calculate gross pay and overtime
	10. Calculate payroll	Calculate payroll
Test 6 Summa	y and Review	
Test 6		
	Test Seven (covers chapter 10 pp. 200-224)
Determining and Pricing	Cost Percentages	
Chapter 10	1. Define food costs	Importance of knowing food cost
· · ·	2. Define labour costs	Importance of knowing labour cost
		More on importance of knowing food cost
	cost percentages	
	4. Explain the purpose of labour cost percentages	Importance of labour cost percentage
	5. Calculate the food cost	Intro to food cost percentage
	percentages	Food cost percentage overview
		Calculate food cost percentage Food cost percentage
	6. Calculate labour cost	Calculate labour cost percentage
	percentages	
	7. Calculate daily sales	Calculate average sales per customer
	8. Calculate daily food cost	Food cost percentage
	9. Calculate daily labour cost	
	10. Identify strategies to	Tips to determine menu price
	determine menu prices	Menu engineering basics
	11. Find menu price using	Intro to menu engineering Menu pricing
	Markup strategy	
		Menu price setting based on food cost
	1 0	How to calculate menu cost
	13. Find food cost, food cost percentage, or sales price using	
	the Chef's Magic Circle	
Test 7 Summa	-	
Test 7		

	Test Eight (covers chapter 12 pp. 251-266)		
Purchasing and Receiving		Video Links for Course Material	
Chapter 12	1. Prepare requisitions	Stocking Inventory and handling	
	2. Prepare invoice forms and find extension prices	Restaurant Purchase and Order forms	

r			
	3.	Prepare purchase specifications and purchase orders	Purchase order process
	4.	Identify computer as	Intro to computer in restaurant
	.	means of communication	
			Intro to point of sale (POS) for a restaurant
			Restaurant purchasing using computer software
			Computer usage in all parts of restaurant
Test 8 Summary and Review			
Test 8			
Test Nine (covers chapter 13 pp. 267-287)			
Daily Production Reports and Beverage Costs			
Chapter 13	1.	Complete the cook's production report	Production report
	2.	Complete the baker's production report	Bakery production report
	3.	Complete the salad production report	
	4.	Complete the counter production report	
	5.	Calculate beverage percentages	Beverage cost percentage Calculate beverage cost percentage
	6.	Identify the number of ounces in 750 ml of wine	Different types of alcohol Ounces to mI for bartending
	7.	Identify number of oz in barrel or keg of beer	Number of 16 oz glasses in keg
	8.	Recognize methods in	Tips to minimize alcohol theft
		which theft may occur in beverage operation	Bar inventory control software
	9.	Calculate sales from a barrel or keg of beer using the cup method	
Test 9 Summary and Review			
Test 9			
	Ν	ATH 037 Practice Final Exam	
	M	ATH 037 Final Exam	
Some Learning tips and strategies for math 037			Tips for remembering what you read Intro to math anxiety Math anxiety strategies Tips for math anxiety Pro chefs share their top tips