"Success In Business Math" Handout

NAME:
Instructions: Answer the following questions, showing your work as needed. Round percentages to .1 and dollar amounts to nearest .01
1. Calculate Cost percentages, round to nearest tenth (0.1) of a percent: (P/B=R) a. Cost \$200.00; Sales \$500.00; Cost % b. Cost \$150.00; Sales \$500.00; Cost % c. Cost \$178.50; Sales \$700.00; Cost %
 2. Calculate cost, given the following figures for cost percent and sales: (R*B=P) a. Cost percent 28.0%; Sales \$500.00; Cost b. Cost percent 34.5%; Sales \$2,400.00; Cost c. Cost percent 24.8%; Sales \$225.00; Cost
3. Calculate sales, given the following figures for cost percent and cost: (P/R=B) a. Cost percent 30.0%; Cost \$2.57; Sales b. Cost percent 25.0%; Cost \$1.32; Sales c. Cost percent 33.3%; Cost \$1,000.00; Sales
Determine the total cost of each meal.
4. A tip of \$2.00 was 15% of the cost of the meal.
5. A tip of \$8.00 was 20% of the cost of the meal.
6. A tip of \$5.00 was 20% of the cost of the meal.
7. A tip of \$12.00 was 15% of the cost of the m3eal

8. 35% of \$2,345 is?
9. 19 is what percent of 100?
10. 43 is what percent of 222?
11. \$3.25 is 28% of?
12. Four college friends go out and spend \$60.00 on lunch. They all pitch in and leave a \$10.00 gratuity. What percent gratuity do they leave?
13. A guest check totals \$152.50. The food server adds a 6% Sales Tax. How much is the Sales Tax?
14. Labor costs normally represent 35% of the sales dollar. If a restaurant expects to pay \$4,200 in Labor Cost this week, what is the amount of sales needed to maintain a 35% labor cost?
15. A restaurant has projected sales for the week to be \$15,500. If the restaurant traditionally works at a 32% Labor Cost, how much labor cost dollar could be expected?
16. A recipe's food cost is \$2.57 to prepare. If the restaurant wants to maintain a 26% food cost %, what should the minimum selling price be?
17. A foodservice operation brings in \$75,000 in food sales in January and wants to increase its food sales by 8% next month. What is the dollar amount of food sales needed in February?

Cost Control Alphabetic MOP Sheet

STEP 1: Convert unit in H to same unit in J

STEP 2: Divide G by H = I G / H = I

STEP 3: I * D = K

STEP 4: Repeat until all recipe items converted.

STEP 5: L= Total of K

STEP 6: $M = L^*$ "Q" Factor

STEP 7: N = L + M

STPE 8: O = N divided by Standard Yield (See top of Control Sheet)

STEP 9: S = O + Added Costs.

STEP 10: T = Desired cost %

STEP 11: U = S divided by Q S / T = U

STEP 12: V = Menu Price

STEP 13: W = S divided by V S / V = W

								Name:	Chef Roch	e's Class
Restauran	t Name:	Miami Dad	e School Lu	unch Cater	ng Account				2.121.1311	
							Standard	d Portion:	1	Sandwich
Classificat	tion	Childs Mea	al							
							Standard Yi	eld:	1	Sandwich
Recipe Na	me:	PB & J Sa	ndwich							
Recipe			As Pur				oice	Red		Individual
Quantity	Unit	EY%	Quantity	Unit	Ingredient	Cost	Unit	Cost	Unit	Ingredient Cost
2.00	slice	100.0%	2.00		Wheat Bread	\$2.99	24 slices		slice	
2.00	OZ.	100.0%	2.00		Peanut Butter	\$3.59	40 oz. Jar		OZ.	
1.00	OZ.	100.0%	1.00	OZ.	Jelly	\$2.59	20 oz. Jar		OZ.	
Mothod of	Droporation						 	tol Ingres	liant Cast	
Method of	-		butter and	امال ممادا	h alian of brand w			Factor %:	dient Cost:	
together ar			butter and	jeny on ead	ch slice of bread, p	ress	Q		cipe Cost:	
together ar	iu trieri siic	e III Hall.							rtion Cost:	
NOTE: Wa	ar aloves v	ith ready to	eat food n	roductel				FU	Cost:	
INOIL. WE	ai gioves w	nui icauy lu	cat lood p	ioducis:					Cost:	
									Cost:	
								Total F	Plate Cost:	
									ed Cost %:	
							Prelim			
									ling Price: lal Cost %:	
Garnish:	Be certain	to list garni	sh as indivi	dual ingred	ient so cost is cov	ered.				

					:			ļ.						
Recipe N						Portion Size:								
∕lenu Cat	tegory:		I		Standard Yield:	Standard Yield:								
Recipe E		EY %	EY % As Pui				Invoice	Comp	/Invoice patibility					
Recipe Quantity			Recipe Ingredient	Invoice Purchase Cost	Invoice Purchase Unit	Cost per Recipe Unit of Measure	Recipe Unit of Measure	Individual Ingredient Cost						
Α	В	С	D	E	F	G	Н	ı	J	K				
				 		+								
								Total Ing	redient Cost:		L			
								Q Fac			м			
									Recipe Cost:		N			
									Portion Cost:		0			
									ditional Cost:		P			
											P			
								Additional Cost:						
									I Plate Cost:		Q _			
									ired Cost %:		R			
							F		Selling Price:		S			
									Selling Price:		Т			
roStart				Dr. Colin				Ac	tual Cost %:		U			

Pocino M	amo: Three	Bean Salac	·			Portion Size: 6 oz.				-		-		
<u> </u>	tegory: Side		1			Standard Yield: 30								
wena ca	tegory. Olde	Order												-
Re	ecipe	EY %	As Pu	rchased					Invoice	Comp	e/Invoice patibility			
Recipe Quantity	Recipe Unit of Measure		Quantity Needed to Buy	Recipe Unit of Measure	Recipe Ingredient			Invoice urchase Cost	Invoice Purchase Unit	Cost per Recipe Unit of Measure	Recipe Unit of Measure	Individual Ingredient Cost		
Α	В	С	D	E	F		G		Н	I	J	K		
3	lb.	88%		lb.	Beans,	fresh yellow	\$	0.80	lb.		lb.			
3	lb.	88%		lb.	Beans,	Beans, fresh green			25 lb.		lb.			
2	lb.	100%		lb.	Beans,	red kidney	\$	2.05	#10 (6.4 lb.)		lb.			
1	lb.	80%		lb.	Peppers	•	\$				lb.			
4	hds.	100%		hds.	Lettuce	, green leaf	_		24 head		hds.			
2	qt.	100%		qt.	Olive oil		\$	14.75	gallon		qt.			
1	qt.	100%		qt.	Vinegar, red wine		\$		4 gallon		qt.			
4	oz.	100%		oz.	Sugar, granulated		\$	20.20	50 lbs.		oz.			
1	bun.	100%		bun.	Basil		\$	14.40	12 bunch		bun.			
1	bun.	100%		bun.	Oregan	0	\$	1.00	bunch		bun.			
1/2	tsp.	100%		tsp.	Marjora	m	\$	2.20	12 oz.		tsp.			
3	clv.	100%		clv.	Garlic		\$				clv.			
1	tsp.	100%		tsp.	Salt		\$		26 oz.		tsp.			
1	tsp.	100%		tsp.	Pepper		\$	3.59	lb.		tsp.			
										Total Ing	redient Cost:		L	
							1				actor <u>4</u> %:		М	
											Recipe Cost:		N	_
											Portion Cost:		0	
							_			Add	ditional Cost:		Р	
									Additional Cost:				Р	_
							-		Total Plate Cost:				Q	_
											R			
									P	-	Selling Price:		S	
							-			Actual S	Selling Price:		Т	
roStart	2020			Dr. Colii	- 1				б	Ac	tual Cost %:		U	

Please ro	ound all As F	Purchased Q	uantities ι	up to the ne	xt highest	quarter unit								
Desine N	ama, Daka	d Colmon wit	h I aman I	Duttor		Portion Size: 4 oz.								
	ame: вакес tegory: Entr	d Salmon wit	n Lemon i	Butter		Standard Yield: 50								
Menu Ca	tegory. Enti	ces				Standard Field. 50								
Re	cipe	EY % As Pur		rchased					Invoice	Recipe/Invoice Compatibility				
Recipe Quantity	Recipe Unit of		Quantity Needed to Buy	Recipe Unit of Measure	Re	ecipe Ingredient	Pui	voice rchase Cost	Invoice Purchase Unit	Cost per Recipe Unit of Measure	Recipe Unit of Measure	Ingr	vidual edient ost	
Α	В	С	D	E		F		G	Н	I	J		K	
12.5	lbs.	75%			Salmon	sides	\$	17.40	2.5 lb.					
0.5	cup	100%			White wi	ne	\$	7.64	gal.					
0.25	cup	100%			Lemon ju	uice	\$	28.65	12/32 oz					
as neede	ed				Clam juice			23.30	12/46 oz					
3	lbs.	67%			Clarified	butter	\$	72.30	30/1lb.					
3	lbs.	100%			Bread cr	umbs	\$	34.75	12/24 oz					
2	oz.	53%			Fresh Pa	arsley	\$	5.15	6/3.5 oz					
to taste					Salt		\$	4.95	25 lb.					
to taste					Pepper		\$	4.95	lb.					
										Total Ingr			L	
											actor <u>3</u> %:			М
											Recipe Cost:			N
											Portion Cost:	\$		0
													0.32	Р
									Vegetable Additional Cost: Total Plate Cost:			\$	0.24	Р
														Q
											ired Cost %:		30%	R
									Prelimina		rice at 30%:			<u>s</u>
									_		Selling Price:			T
ProStart	2020		\Box	r. Colin R	oche				7	Ac	tual Cost %:			U