Fall 2007

Exam 2 Version 2

Name: Solution

This exam contains 25 questions. Be sure to fill in an answer on your scantron for each question. Good luck!

1. Britton Industries has budgeted the following information for March:

Cash receipts	\$542,000
Beginning cash balance	\$ 10,000
Cash payments	\$560,000
Desired ending cash balance	\$ 50,000

If there is a cash shortage, the company borrows money from the bank. All cash is borrowed at the beginning of the month in \$1,000 increments and interest is paid monthly at 1% on the first day of the following month. The company had no debt before March 1st. How much interest would the company have to pay in April (the following month)?

	la	y man a to body min wh
	a.	\$ -0-
	b.	\$ 80
	c.	\$500
/	d.	\$580
	e.	None of the above

+ recoipts 542,000 - paymes 560,000 needed and \$50,000 + shortage \$50,000

Fire ility

2. ServicePro provides two kinds of services. During the most recent accounting period, the two service lines produced the following operating results:

	Service 1	Service 2
Service revenue	\$80,000	\$20,000
Unit-level materials	(\$20,000)	(\$ 2,000)
Unit-level labor	(\$30,000)	(\$14,000)
Product-level selling & administrative costs	(\$10,000)	(\$ 2,500)
Company wide facility-level costs	(\$ 5,000)	(\$ 5,000)
Net income	\$15,000	(\$ 3,500)

If the company stops providing Service 2,

The company's income will increase by \$1,500 per year. The company's income will decrease by \$1,500 per year.

c. The company's income will increase by \$1,500 per year.

d. The company's income will decrease by \$3,500 per year.

e. None of the above

→ from \$11,500
to
•
\$ 10,000

3. Select the correct statement regarding relevant costs and revenues.

a. Sunk costs are relevant for decision-making purposes. No

b. Differential revenues are expected future revenues that do not vary between the alternatives under consideration. No

Avoidable costs are also known as sunk costs. No

d. To be relevant, a cost revenue must be future-oriented and must differ between the alternatives. STANDARD TEXTBOOK DEFINITION.

e. To become relevant, costs and revenues must first go through a short stage of being irrelevant.

4.	In the early days of the indus a. Were highly correla b. Were relatively larg	ted with the use of	labor. YES		
	 c. Were a significant c 	ost of producing m			
	d. All of the above				
	e. None of the above	100	•		
_			K	eceipts ON Credit SALES	
5.	Crow Company expects the		CASH SALES	Credit ShiEs	>
	Month	······································			②
	March	\$30,000		/14 mm x 77 %	7
	April	\$20,000	• • •	(14,000 × 72% (21,000 × 25%	
	May	\$30,000	\$ 9,000	(21,000 × 25 %	5)
	June	\$25,000	•	C	
6.	The company expects 70% of collected as follows: 25% in remainder being uncollectible collection during May is: a. \$14,350 b. \$15,750 c. \$24,330 d. \$26,580 e. None of the above. The following information is Selling price per unit Variable cost per unit	the month of sale, the month of sale, the and written off in the provided for two provided for two product X \$25	10,080 (3) 10,080 (3) 5,250 (3) 24,330 Product Y \$35 20	c M per unit #of units on shelf	X Y 10 15 8,000 6,000
7	b. Product X should be C. They say to always	are 6,000 units. We sold solely because sold in order to m	hich product should be se expected demand is aximize profit.	oduct X are 8,000 units, and sold and why? greater. No obtain margin per unit while	
/.	b Salling and adminis	trative expense bud	leat to		
8.	Homer Company Company to be \$30,000. The company February. Credit sales are co Based on this information the a. \$88,000 b. \$80,000 c. \$85,000 d. \$83,000 e. None of the above	expects credit and llected in the mont	cash sales to increase the following the month of the control of t	10% for the month of in which sales are made. would be: JAN. Credit SALES = SAles (30,000 × 1.1) =	4 33,000
nat 2201		•		٦	83,000
cct 2301		2		Exam 2	

Sarasota Company created a budget for the first four months of 2007. Projected credit sales are shown below:

January	\$30,000	,
February	\$36,000	#
March	\$45,000	x 65% = '29,250
April	\$48,000	

Past experience show collection of credit sales as follows: 35% in the month of sale and 65% in the month following the month of sale.

What is the expected accounts receivable balance at the end of the first quarter (i.e., What is the expected A/R balance on March 31, 2007?)

- a.) \$ 29,250
 - b. \$ 33,300
- c. \$ 35,850
- d. \$ 36,900
- e. None of the above

None of the above

10. Clear Music company produces and sells a desktop speaker for \$100. The company has the capacity to produce 50,000 speakers each period. At capacity, the costs assigned to each unit are as follows:

Unit level costs \$45

Product level costs \$15

Facility level costs \$5

Product well costs \$5

Product & Facility costs will special order for 1,000 speakers. If this order is accepted, the

The Company as received a special order for 1,000 speakers. If this order is accepted, the company will have to spend \$10,000 on one-time packaging costs. Assume that no sales to regular customers will be lost if the order is accepted.

At what selling price will the company be indifferent between accepting and rejecting the special order?

11. S. H. Woods Company developed the following budget at the beginning of the company's accounting period:

\$16,000
4,000
\$12,000 - 8,000 units =
4,000
\$ 8,000

Exam 2

If actual production totals 7,800 units, what amount of net income would the flexible budget show?

12. Connor Sporting Goods produces two types of shoes, football and basketball. The company uses the same facility to make both products even though the processes are quite different. The company has recently converted its cost accounting system to activity-based costing. The following are the cost data that Sue Chapman, the cost accountant, prepared for the fourth quarter of 2007 (during which Connor made 30,000 pairs of football shoes and 15,000 pairs of basketball

Direct Cost		III Shoes (FS)		Shoes (BS)	
Direct Materials			\$12 per uni		C . 1 /0/
Direct Labor	\$20 per	r unit	\$18 per uni	t	Football's
Activity Pool	Cost Pool	Total Cost Driv	er Ar	nount of Cost Driver	% use
Unit level	\$391,500	# of inspection h		: 7,500 hrs; BS: 6,000 hrs	55.500
Batch level	\$137,500	# of setups		: 40 setups; BS: 22.5 set ups	64 %
Product level	\$54,000	# of TV commerc	cials FS	8: 3; BS: 1	75%
Facility level	\$352,000	# of machine hou	rs FS	: 15,500 hrs; BS: 16,500	48.49

What is the total production cost for the fourth quarter for the football shoes? (Round to the nearest dollar.)

DM + DL + OH = Total Product Cost (\$ 15 + \$20) × 30,000 units = \$1,050,000 in DM&DL a. \$750,000 b. \$516,500

(\$ 15 + - 60) - 50, - 6. ...

OH: multiply each cost pool by $\frac{9}{6}$ use

(\$ 217,500 + 88,000 + 40,500 + 170,500) = 516,500

cof preparing a purchases budget for the first quarter of 2008. The

-- 4c9 - f sola)

\$ 1,566,500 \$1,266,500 \$1,373,333 None of the above

13. Owl Company is in the process of preparing a purchases budget for the first quarter of 2008. The company h

has budgeted sales as follows:		LOGS (75% of sales)
December, 2007	\$ 88,000	2003(1980. 222)
January, 2008	\$ 93,000	69,750
February, 2008	\$102,000	76,500
March, 2008	\$123000	10,500

Cost of goods sold is expected to be 75% of sales. The company would like to have ending inventory each month equal to 25% of the following month's predicted cost of sales. The total cost of purchases in January is

i purchases in January is	JAN INU	Equanor
a. \$118,500 b. \$ 93,000 c. \$ 88,876	Bagin 17 438 69,750 cocs	-OR- Begin INU + Purchases
e. None of the above	End 19125	- COGS End Inv
Acore Company allocates ov	erhead on the bacic of direct labor hour	s. It allocates overhead costs

 Moore Company allocates overhead on the basis of direct labor hours. It allocates overhead costs of \$6,400 to two different jobs as follows:

Job 1: (10 hours) \$3,200 Job 2: (10 hours) \$3,200

Assume, that a change occurs. The production process for Job 2 is automated. Now Job 2 only requires 2 hours of direct labor, but 6 hours of mechanical processing. Job 1 is unaffected by the change. As a result, total overhead increases from \$6,400 to \$7,200. After automation, the company continues to use direct labor hours to allocate overhead. Based on the preceding, which of the following will occur?

The amount of overhead assigned to each job will increase. No The amount of overhead assigned to Job 1 will increase.

c. The amount of overhead assigned to Job 2 will increase.

d. Job 1 will be forced to automate immediately. Not necessarily

e. None of the above X

7,200 OH 10 DL HES 12 DL Hrs Exam 2 \$6,000

15. Hickory Home Company manufactures and sells two lines of furniture, case goods and upholstery. During the most recent accounting period, the Case Goods and Upholstery Divisions sold 15,000 and 2,000 units, respectively. The company's most recent financial statements are shown below:

	Case Goods Division	Upholstery Division	upholst, CM stmt
Sales	\$800,000	\$200,000	42
Less: cost of goods sold:	WE STATE OF THE ST	***************************************	1 200,000
Unit-level production cost	500,000	120,000	- 120,000
Depreciation-production equipment	120,000	30,000	- 25,000
Gross margin	180,000	50,000	
Less: operating expenses:	And the second s		55,000
Unit-level selling and admin.	30,000	25,000	- 51 000
Corporate-level facility exp. (fixed)	26,000	26,000	- 56,000
Net income (loss)	\$124,000	<u>\$ (1,000</u>)	<1,000)

If unit sales for both divisions increased 10%, the company would report which of the following?

- a. A \$26,000 increase in gross margin for the Upholstery Division
- b. A 10% increase in total net income of the company.
- c. They say to always guess "C" if you don't know the answer.
- d. A decline in profit for the Upholstery Division

 Net income for the Upholstery Division of \$4,500

If SALES + by 10%: 55,000 x 1.1 = 60,500

- 56,000 F

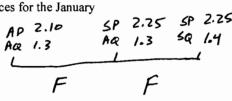
16. Speedy Spandex Company provided the following information related to its inventory sales and purchases for December 2007 and the first quarter of 2008:

the state of the s	Dec. 2007	Jan. 2008	Feb. 2008	March 2008
	(Actual)	(Budgeted)	(Budgeted)	(Budgeted)
Cost of goods sold	\$40,000	\$ 70,000	\$ 90,000	\$ 60,000
			x 25%	x 75%

Desired ending inventory levels are 25% of the following month's projected cost of goods sold. If the ending inventory for December 2007 is \$18,000, what would be the budgeted purchases of inventory in February 2008?

bruary 2008?	Feb Inv	Equation
a. \$ 74,500 b. \$ 82,500 c. \$ 92,500 d. \$105,000 e. None of the above	22.5 90 (ogs X 15	Begin Inv 22.5 + Purchases + 90 - COGS - X End INV 15

- 17. Kobey Company makes a product that is expected to use 1.4 pounds of material per unit of product. The material has a standard cost of \$2.25 per pound. Kobey actually used 1.3 pounds of material per unit of product made in January. The actual cost of material was \$2.10 per pound. Based only on this information, what would be the condition of the variances for the January production?
 - a. unfavorable for price and unfavorable for usage
 - b. unfavorable for price and favorable for usage
 - c. favorable for price and unfavorable for usage d. favorable for price and favorable for usage
 - e. favorable for the time being, unfavorable in the long run.



18. The Bach Company provides the following standard cost data:

Direct material (3 ga	llons @ \$5 per gallon)	\$15.00	
Direct labor (2 hours	@ \$12 per hour)	24.00	determinants)
During the period, th	e company produced and	sold 24,000 ur	nits, incurring the following costs:
Direct materials	72,000 gallons at \$5.0	0 per gallon	
Direct labor	48,000 hours at \$12.05	per hour	

The direct labor price variance was

AP 17.05 SP 12 AQ 48,000 AQ 48,000

a. \$2,400 favorable. b. \$2,400 unfavorable.

c. \$2,375 favorable.

d. \$2,375 unfavorable.

e. None of the above.

54 x 48,000 = 2,400 U

19. Riley Industries produces two types of electronic decoders, Y and Z. Decoder Y is more sophisticated and requires more programming and testing than does Z. Because of these differences, the company wants to use activity-based costing to allocate overhead costs. It has identified four activity pools.

Activity Pools	Cost Pool Total	Cost Driver	
Repairs/maint on assembly machines	\$275,000	# of units produced	
Programming cost	\$390,000	# of programming hours	
Software inspections	\$ 31,200	# of inspections	
Product testing	\$ 28,500	# of tests	
Total	\$724,700		

Expected activity for each product follows.

	# of units	# of programming hours	# of inspections	# of tests
Decoder Y	19,000	2,500	180	1,200
Decoder Z	36,000	1,400	60	700

How much of the programming costs will be allocated to decoder Y using activity-based costing? (Round your answer to the nearest dollar.)

a. \$140,000 b. \$250,000 c. \$134,727

\$464,551 None of the above Programming Y's use $\frac{390,000}{(2,500+1,400)} = \frac{250,000}{(2,500+1,400)} = \frac{250,000}{(2,500+1,400)}$

20. Yamamoto Company produces two types of computer speakers. The Prestige line is made to provide excellent sound for the most demanding applications. The Standard line is geared toward workplace use and delivers average performance. During its most recent accounting period, the company produced 4,000 Prestige speakers and 6,000 Standard speakers. Each speaker uses two direct labor hours. The company incurred \$100,000 of setup costs. Fifteen batches were run for the Prestige line and five batches for the Standard line. What will happen if Yamamoto uses direct labor as its company-wide overhead allocation base instead of using activity-based costing?

a. The Prestige speakers will be overcosted.
b. The Standard speakers will be overcosted.

c. The Prestige speakers will be costed accurately.

d. The Standard speakers will be undercosted.

e. None of the above

w/DL \$ 75,000 \$ 25,000

- 21. When would a variance labeled as favorable?
 - When expected sales are greater than actual sales No... this is unfavorable
 - When actual costs are greater than budgeted costs No... this is un favorable
 - When standard costs are less than actual costs No. .. unfau.
 - When actual costs are less than standard costs
 - When the conditions for activity-based costing are true. Anke sense
- 22. Harrell Company makes a product that is expected to require 3.0 hours of labor per unit of product. The standard cost of labor is \$8.00. Harrell actually used 3.2 hours of labor per unit of product. The actual cost of labor was \$7.75 per hour. Harrell expected to make 1,100 units of the product during the period but actually made 1,200 units. What is the labor usage variance?
 - \$1,920 unfavorable
 - b. \$1,860 unfavorable
 - c. \$1,760 unfavorable

 c. \$1,760 unfavorable d. \$ 960 favorable e. None of the above following information is provided by the 	he Airrick M. Orris (AMO) (×1,200	oper unit	Unfav.
Actual direct material cost	\$24,000	′		
Standard direct material cost	\$20,000		CD	SP
Direct material usage variance	\$3,000 unfavorable	AP AO	SP AQ	SQ

What is the direct material price variance?

- a. \$1,000 favorable
- (b.) \$1,000 unfavorable
 - c. \$5.000 unfavorable
- d. \$7,000 unfavorable
- e. There is not enough information to answer this question. (To receive credit for this response, you must clearly explain your reasoning and submit your response with your

completed scantron sheet). > To get credit, your story must clearly discuss the potential for change in inventory levels.

24. Rossi produces a variety of garden tools in a highly automated manufacturing facility. The costs and cost drivers associated with four activity cost pools are given below.

ACTIVITIES:	UNIT	BATCH	PRODUCT	FACILITY	
	LEVEL	LEVEL	LEVEL	LEVEL	
Total Cost	\$30,000	\$12,000	\$6,000	\$36,000	
Total Cost Driver Volume	5,000 labor hrs	240 set ups	% of use	36,000 units	
Allocation rate	\$6 per labor hr	\$50 per set up	The state of the s	\$1 per unit	

Production of 10,000 units of a hand-held tiller required 500 labor hours, 40 setups, and consumed 50% of the product sustaining activities. Overhead is allocated using the activity-based costing system. Direct production costs for the shears are \$10.20 each. If the tiller is priced at cost plus 40%, what is the expected selling price for each tiller?

- \$16.80
- b. \$12.00
- c. \$26.04
- \$14.28
- None of the above

or each liner?

Unit
$$46 \times 500 \text{ hrs} = 3,000$$

butch $450 \times 40 \text{ selves} = 2,000$

prod $46000 \times 50\% = 3,000$

fac $41 \times 10,000 \text{ mit} = 10,000$

18,000 Allocated OH

-10,000 units

1.80 OH per unit

10.20 Direct costs

12.00 Total unit cost

Exam 2

* 16.80

16.80

- 25. Select the incorrect statement regarding flexible budgets.
 - a. Flexible budgets show the estimated revenues and costs at multiple volume levels.
 - b. The 'flexible' adjective means the budget can to accommodate unexpected events.
 - c. Standard prices and costs are typically used in preparing a flexible budget
 - d. All of the above are correct, but ask yourself, "are you looking for correct answers?"

e. A flexible budget is also known as a static budget.

problem
Asks for
An incorrect start