Multiple Choice Questions

- 1. What is the primary difference between a static budget and a flexible budget?
 - a) The static budget contains only fixed costs, while the flexible budget contains only variable costs.
 - b) The static budget is adjusted for different activity levels, while a flexible budget is prepared for a single level of activity.
 - c) The static budget is prepared for a single level of activity, while a flexible budget is adjusted for different activity levels.
 - d) Both the static budget and the flexible budget are adjusted for different activity levels.
- 2. M Company prepared a static budget of 50,000 direct labor hours, with estimated overhead costs of \$250,000 for variable overhead and \$60,000 for fixed overhead. Trepid then prepared a flexible budget at 38,000 labor hours. How much is total overhead costs at this level of activity?
 - a) \$190,000
 - b) \$247,000
 - c) \$250,000
 - d) \$260,000
- 3. W Company uses flexible budgets. At normal capacity of 10,000 units, budgeted manufacturing overhead is: \$50,000 variable and \$135,000 fixed. If W Company had actual overhead costs of \$187,500 for 11,000 units produced, what is the difference between actual and flexible budget costs?
 - a) \$2,500 unfavorable
 - b) \$2,500 favorable
 - c) \$4,500 unfavorable
 - d) \$6,000 favorable
- 4. A profit center is responsible for which activities?
 - a) Costs only
 - b) Costs and the revenue generated by those costs
 - c) Costs and any revenue generated by the company
 - d) Costs, revenue, and assets purchased for revenue generation
- 5. Decentralization means
 - a) Control of operations is delegated to many managers throughout the organization.
 - b) Control of operations is delegated to top management.
 - c) Control of operations is delegated for controlling variable costs.
 - d) Control of operations is delegated for controlling fixed costs.
- 6. A responsibility report show the following information
 - a) Sales- variable costs- fixed costs= net income.
 - b) Sales- controllable variable costs- fixed costs= controllable margin.
 - c) Sales- variable costs- controllable fixed costs= controllable margin.
 - d) Sales- controllable variable costs- controllable fixed costs= net income.

- 7. Arbor Co. has a controllable margin of \$120,000 on revenues of \$800,000. Average invested assets were \$600,000. Arbor requires a 15% minimum rate of return. What is the ROI?
 - a) 8%
 - b) 10%
 - c) 12%
 - d) 20%
- 8. Arbor Co. has a controllable margin of \$120,000 on revenues of \$800,000. Average invested assets were \$600,000. Arbor requires a 15% minimum rate of return. What is the residual income?
 - a) \$0
 - b) \$30,000
 - c) \$40,000
 - d) \$200,000
- 9. Which of the following will <u>not</u> improve ROI?
 - a) Increasing sales
 - b) Increasing average operating assets
 - c) Increasing Controllable margin
 - d) Decreasing Costs
- 10. Reviews that are based primarily on the differences between actual results and planned objectives is called:
 - a) Behavior principles
 - b) Management by exception
 - c) materiality
 - d) responsibility accounting

Practice Problems

Practice Problem #1

A partially completed flexible overhead budget for S Company is shown below:

	Activity Level in Units
Cost Formula	<u>8,000</u> <u>12,000</u> <u>16,000</u>
Variable overhead:	
Supplies	\$108,000
Utilities	60,000
Repairs	24,000
Total variable overhead	\$192,000
Fixed overhead:	
Depreciation	\$15,000
Salaries	96,000
Rent	44,000
Total fixed overhead	\$155,000
Total overhead	\$347,000

Required: Fill in the missing data.

Practice Problem #2:

J Company's has provided the following information regarding June's results.

	Revenue and Cost	
_	<u>Formula</u>	Actual Results
Conversion costs	\$3.25/unit	7,000
Salaries	\$8,000	7,600
Utilities	\$600 + \$0.50/unit	1,550
Rent	\$5,000	5,000
Miscellaneous	\$800 + \$0.80/unit	2,500

Required:

- a) Prepare the company's flexible budget assuming that 2,000 units were manufactured.
- Assume that 2,100 units were actually manufactured. Prepare the flexible budget for this level of activity. Determine Favorable or Unfavorable Differences

Practice Problem #3

T Company recently prepared a manufacturing cost budget for an output of 50,000 units for one of their cost centers, as follows:

Direct materials	\$100,000
Direct labor	50,000
Controllable variable overhead	75,000
Noncontrollable overhead	100,000

Actual units produced amounted to 60,000. Actual costs incurred were direct materials, \$110,000; direct labor, \$60,500; controllable overhead, \$85,000; and noncontrollable overhead, \$97,000.

Required:

If T Company evaluated performance by the use of a flexible budget,

prepare a responsibility report showing the differences.

Practice Problem #4

The H Company manufactures basketballs. Last year's sales were \$700,000, controllable margin was \$100,000, and average operating assets were \$800,000.

Required:

- a) If next year's sales are unchanged and expenses and average operating assets are reduced by 10%, compute current year and next year's ROI.
- b) If the minimum required rate of return is 6%, what will be the residual income in the current year and next year?

Solutions

С 1. 2. С 3. В 4. В 5. Α 6. C 7. D 8. В 9. В

В

10.

Solution #1

		Activity Level in Units		
	Cost Formula	<u>8,000</u>	<u>12,000</u>	<u>16,000</u>
Variable overhead:				
Supplies	\$9.00	\$72,000	\$108,000	\$144,000
Utilities	\$5.00	40,000	60,000	80,000
Repairs	\$2.00	16,000	24,000	32,000
Total variable overhead		\$128,000	\$192,000	\$256,000
Fixed overhead:				
Depreciation		\$15,000	\$15,000	\$15,000
Salaries		96,000	96,000	96,000
Rent	_	44,000	44,000	44,000
Total fixed ove	rhead	\$155,000	\$155,000	\$155,000
Total overhead	. t	\$283,000	\$347,000	\$411,000
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Variable overhead cost formula = variable overhead cost / activity level Fixed overhead costs do not change as the level of activity changes.

Solution #2

		<u>Flexible</u> <u>Budget</u>	<u>Actual</u>	<u>Difference</u>
Budgeted number of units sold		2,000	2,000	
Expenses:				
Conversion costs	\$3.25/unit	6,500	7,000	500 U
Salaries	\$8,000	8,000	7,600	400 F
Utilities	\$.50/unit+\$600	1,600	1,550	50 F
Rent	\$5,000	5,000	5,000	0
Miscellaneous	\$.80/unit+\$800	2,400	2,500	100 U
Total costs	_	\$23,500	\$23,650	150 U

Solution #3

	Cost Formula based on 50,000 units	Flexible Budget based on 60,000	<u>Actual</u>	<u>Difference</u> <u>F-Favorable</u> <u>U-Unfavorable</u>
		<u>units</u>		
Controllable Costs				
Direct materials	\$2.00	\$120,000	\$110,000	\$10,000 F
Direct labor	\$1.00	60,000	60,500	500 U
Controllable	\$1.50	90,000	85,000	5,000 F
overhead				
Total	- -	\$270,000	\$255,500	14,500 F

Solution#4

a)

ROI: Controllable Margin Average operating assets	\$100,000 800,000			= 12.5%
ROI: Controllable Margin Average operating assets	<u>Last Year</u> \$100,000 800,000	<u>Change</u> \$60,000 (80,000)	Next Year \$160,000 720,000	= 22.2%
Change in Income: Sales Controllable Margin Expenses Decrease % Decrease in expenses	\$700,000 <u>100,000</u> 600,000 <u>10%</u> \$60,000	= Increase in Controllable		
Residual Income: Average operating assets Minimum rate of return Minimum required income Controllable Margin Residual Income	\$800,000 <u>6%</u> \$48,000 <u>\$100,000</u> \$52,000	<u>%</u> 0 <u>0</u>	\$720,000 <u>6%</u> \$43,200 <u>\$160,000</u> \$ 116,800	<u>6</u> 0 <u>0</u>