

1. The following data pertains to activity and costs for two months:

	<u>June</u>	<u>July</u>
Activity level in units	10,000	20,000
Variable costs	\$20,000	\$?
Fixed costs	15,000	?
Mixed costs	<u>10,000</u>	<u>?</u>
Total costs	\$45,000	\$70,000

Assuming that these activity levels are within the relevant range, the mixed costs for July were:

- A) \$10,000.
 B) \$35,000.
 C) \$15,000.
 D) \$40,000.
2. An analysis of past maintenance costs indicates that maintenance cost is an average of \$0.20 per machine-hour at an activity level of 10,000 machine-hours and \$0.25 per machine-hour at an activity level of 8,000 machine-hours. Assuming that this activity is within the relevant range, what is the total expected maintenance cost if the activity level is 8,700 machine-hours?
- A) \$2,000
 B) \$400
 C) \$2,250
 D) \$1,740
3. The controller of JoyCo has requested a quick estimate of the manufacturing supplies needed for the month of July when production is expected to be 470,000 units. Below are actual data from the prior three months of operations.

	Production <u>in units</u>	Manufacturing <u>supplies</u>
March	450,000	\$723,060
April	540,000	853,560
May	480,000	766,560

Using these data and the high-low method, what is the best estimate of the cost of manufacturing supplies that would be needed for July? (Assume that this activity is within the relevant range.)

- A) \$805,284
 B) \$1,188,756
 C) \$755,196
 D) \$752,060

4. Buckeye Company has provided the following data for maintenance cost:

	<u>Prior Year</u>	<u>Current Year</u>
Machine hours	12,500	15,000
Maintenance cost	\$27,000	\$31,000

The best estimate of the cost formula for maintenance would be:

- A) \$21,625 per year plus \$0.625 per machine hour.
- B) \$7,000 per year plus \$0.625 per machine hour.
- C) \$7,000 per year plus \$1.60 per machine hour.
- D) \$27,000 per year plus \$1.60 per machine hour.

Use the following to answer questions 5-6:

Wilson Company's activity for the first six of the current year is as follows:

<u>Month</u>	<u>Machine Hours</u>	<u>Electrical Cost</u>
January	2,000	\$1,560
February	3,000	\$2,200
March	2,400	\$1,750
April	1,900	\$1,520
May	1,800	\$1,480
June	2,100	\$1,600

5. Using the high-low method, the variable cost per machine hour would be:

- A) \$0.67.
- B) \$0.64.
- C) \$0.40.
- D) \$0.60.

6. Using the high-low method, the fixed portion of the electrical cost each month would be:

- A) \$400.
- B) \$760.
- C) \$280.
- D) \$190.

Use the following to answer questions 7-10:

Gasson Company is a merchandising firm. Next month the company expects to sell 800 units. The following data describe the company's revenue and cost structure:

Selling price per unit	\$40
Sales commission	5%
Purchase price (cost) per unit	\$18
Advertising expense	\$4,000 per month
Administrative expense	\$4,500 per month plus 15% of sales

Assume that all activity mentioned in this problem is within the relevant range.

7. The expected gross margin next month is:
 - A) \$17,600.
 - B) \$11,200.
 - C) \$14,400.
 - D) \$16,000.

8. The expected total administrative expense next month is:
 - A) \$ 4,800.
 - B) \$13,300.
 - C) \$ 9,300.
 - D) \$14,900.

9. The expected contribution margin next month is:
 - A) \$17,600.
 - B) \$11,200.
 - C) \$14,400.
 - D) \$16,000.

10. The expected net income next month is:
 - A) \$ 7,500.
 - B) \$ 5,100.
 - C) \$ 2,700.
 - D) \$11,200.

Answer Key -- Quiz Chapter 5 Fall 1999

1. C \$15,000.
Format: Multiple Choice
Difficulty: Medium
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis31
2. A \$2,000
Format: Multiple Choice
Difficulty: Medium
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis34
3. D \$752,060
Format: Multiple Choice
Difficulty: Medium
Type: CMA adapted
Origin: Chapter 5, Cost Behavior: Analysis37
4. C \$7,000 per year plus \$1.60 per machine hour.
Format: Multiple Choice
Difficulty: Medium
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis47
5. D \$0.60.
Format: Multiple Choice
Difficulty: Medium
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis73
Refer To: Ref. 5-8
6. A \$400.
Format: Multiple Choice
Difficulty: Medium
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis74
Refer To: Ref. 5-8
7. A \$17,600.
Format: Multiple Choice
Difficulty: Medium
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis57
Refer To: Ref. 5-3

8. C \$ 9,300.
Format: Multiple Choice
Difficulty: Easy
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis58
Refer To: Ref. 5-3
9. B \$11,200.
Format: Multiple Choice
Difficulty: Medium
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis59
Refer To: Ref. 5-3
10. C \$ 2,700.
Format: Multiple Choice
Difficulty: Medium
Type: *(None)*
Origin: Chapter 5, Cost Behavior: Analysis60
Refer To: Ref. 5-3