Sample Solution

Exam - Managerial Accounting

Case 1 (18 points)

1) 3 point

Variable cost per hour = (\$390,000/5,000) = \$78

2) 3 point

y = \$110,000 + \$78 X

Fixed costs are given at \$110,000 based on 8,000 hours of labor; variable costs are \$390,000 during the period divided by 5,000 labor hours during the period = \$78.00 variable cost per labor hour.

3) 3 point

Total cost = $$110,000 + [($390,000/5,000) \times 7,000] = $656,000$

4) 9 Points

- High-low method uses only two (extreme) data points
- The least-squares regression use all available data points.
- High/Low quick, easy to use, can be very inaccurate if outlier is used
- Regression: more time consuming, but more accurate

Case 2 (22 points)

1) 6 point

	Absorption	Variable
Direct Material	50	50
Direct Labour	32	32
Variable material overhead	16	16
Fixed material overhead	24	0
TOTAL	122	98

Fixed material overhead: $($600,000 \div 25,000) = 24

2) 14 points

Absorption costing:

	Absorption
Sales revenue (at 150 / unit)	3,300,000
- COGS (122 / unit)	2,684,000
Gross margin	616,000
- Selling & admin expenses:	
Variable (at 2 / unit)	44,000
Fixed	60,000
OPERATING INCOME	512,000

Variable costing:

	Variable
Sales revenue (at 150 / unit)	3,300,000
- Variable expenses:	
Variable manufacturing costs (at 98 / unit)	2,156,000
Variable selling & admin costs (at 2 / unit)	44,000
Contribution margin	1,100,000
- Fixed expenses:	
Fixed manufacturing overhead	600,000
Fixed selling & admin costs	60,000
OPERATING INCOME	440,000

3)

Change in inventory (in units) * predetermined fixed overhead rate

- = absorption-costing income minus variable-costing income
- → Increase by 3,000 units * \$24 = **\$72,000**