

Test Bank for Managerial Accounting CDN 11th Garrison

Chapter 02 Cost Terms, Concepts, and Classifications

Multiple Choice Questions

1. What would be the classification of corporate controller's salary?

- A. Manufacturing cost.
- B. Product cost.
- C. Administrative cost.**
- D. Selling cost.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-08 Non-manufacturing Costs

2. How should the cost of the fire insurance for a manufacturing plant be classified?

- A. Prime cost.
- B. Product cost.**
- C. Period cost.
- D. Variable cost.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-06 Manufacturing Overhead

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

3. How would the cost of rent for a manufacturing plant generally be classified?

- A. A product cost but **not** a prime cost.
- B. **Neither** a product nor prime cost.
- C. A prime cost but **not** a product cost.
- D. Both a prime cost and product cost.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-06 Manufacturing Overhead

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

4. For a lamp manufacturing company, the cost of the insurance on its vehicles that deliver lamps to customers is best described as a:

- A. Prime cost.
- B. Manufacturing overhead cost.
- C. Period cost.
- D. Differential cost of a lamp.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

5. For a manufacturing company, which of the following is an example of a period cost rather than a product cost?

- A. Depreciation of factory equipment.
- B. Wages of salespersons.
- C. Wages of machine operators.
- D. Insurance on factory equipment.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

6. Which of the following would be considered a product cost for external financial reporting purposes?

- A. Cost of a warehouse used to store finished goods.
- B. Cost of guided public tours through the company's facilities.
- C. Cost of travel necessary to sell the manufactured product.
- D.** Cost of sand spread on the factory floor to absorb oil from manufacturing machines.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

7. Which of the following would **NOT** be treated as a product cost for external financial reporting purposes?

- A. Depreciation on a factory building.
- B. Salaries of factory workers.
- C. Indirect labour in the factory.
- D.** Advertising expenses.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

8. What would be the classification of the transportation costs incurred by a manufacturing company to ship its product to its customers?

- A. Product cost.
- B. Manufacturing overhead.
- C.** Period cost.
- D. Administrative cost.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

9. The advertising costs incurred by Pepsi to air its commercials during the hockey season can best be described as a:

- A. Variable cost.
- B. Fixed cost.**
- C. Prime cost.
- D. Conversion cost.

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-20 Variable Cost

Topic: 02-21 Fixed Cost

10. Micro Computer Company has set up a toll-free telephone line for customer inquiries regarding computer hardware produced by the company. How would the cost of this toll-free line be classified?

- A. Product cost.
- B. Manufacturing overhead.
- C. Direct labour.
- D. Period cost.**

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

11. How would the wages of factory maintenance personnel usually be classified?

- A. Direct labour and manufacturing overhead.
- B. Indirect labour and manufacturing overhead.**
- C. Direct labour and period cost.
- D. Indirect labour and period cost

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-06 Manufacturing Overhead

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

Topic: 02-23 Direct Cost

Topic: 02-24 Indirect Cost

12. Prime costs consist of:

- A. Direct Labour and Manufacturing Overhead.
- B. Direct Material and Direct Labour.**
- C. Direct Material and Manufacturing overhead.
- D. Direct Material, Direct Labour and Manufacturing Overhead.

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

13. What does manufacturing overhead cost consist of?

- A. All manufacturing costs.
- B. All manufacturing costs, EXCEPT direct materials and direct labour.**
- C. Indirect materials but NOT indirect labour.
- D. Indirect labour but NOT indirect materials.

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-06 Manufacturing Overhead

Topic: 02-23 Direct Cost

Topic: 02-24 Indirect Cost

14. A brewery produces many variety of beer. If the cost object is a particular brand of beer the factory supervisor salary is classified a/an _____ cost of the brand of beer and a _____ cost of the entire division.

- A. Direct; Common
- B. Indirect; Common**
- C. Direct; Prime
- D. Fixed; Period

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-23 Direct Cost

Topic: 02-24 Indirect Cost

15. Rossiter Company failed to record a credit sale at the end of the year, although the reduction in finished goods inventories was correctly recorded when the goods were shipped to the customer. Which one of the following statements is correct?

- A. Accounts receivable was not affected, inventory was not affected, sales were understated, and cost of goods sold was understated.
- B. Accounts receivable was understated, inventory was overstated, sales were understated, and cost of goods sold was overstated.
- C. Accounts receivable was not affected, inventory was understated, sales were understated, and cost of goods sold was understated.
- D. Accounts receivable was understated, inventory was not affected, sales were understated, and cost of goods sold was not affected.**

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-17 Inventoriable Costs

16. What is the outcome if the cost of goods sold is greater than the cost of goods manufactured?

- A. Work-in-process inventory has decreased during the period.
- B. Finished goods inventory has increased during the period.
- C. Total manufacturing costs must be greater than cost of goods manufactured.
- D.** Finished goods inventory has decreased during the period.

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

Topic: 02-17 Inventoriable Costs

17. Last month, when 10,000 units of a product were manufactured, the cost per unit was \$60. At this level of activity, variable costs were 50% of total unit costs. If 10,500 units are manufactured next month and cost behaviour patterns remain unchanged, how will costs be affected?

- A. Total variable costs will remain unchanged.
- B. Fixed costs will increase in total.
- C. Variable cost per unit will increase.
- D.** Total cost per unit will decrease.

The average cost per unit will decrease as activity increases due to the presence of fixed costs. Refer to page 41 of text.

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-20 Variable Cost

Topic: 02-21 Fixed Cost

18. Which of the following statements regarding variable cost is true?

- A. Variable cost increases on a per unit basis as the number of units produced increases.
- B. Variable cost remains constant on a per unit basis as the number of units produced increases.**
- C. Variable cost remains the same in total as production increases.
- D. Variable cost decreases on a per unit basis as the number of units produced increases.

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-20 Variable Cost

19. Within the relevant range, what is the difference between variable costs and fixed costs?

- A. Variable costs per unit fluctuate and fixed costs per unit remain constant.
- B. Variable costs per unit are constant and fixed costs per unit fluctuate.**
- C. Total variable costs and total fixed costs are constant.
- D. Total variable costs and total fixed costs fluctuate.

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-20 Variable Cost

Topic: 02-21 Fixed Cost

20. The Target store in your home town is one of many Target department stores across the province. Some of the costs associated with the store in your home town last month appear below:

Shoe Department Cost of Sales	\$80,000
Other Department Salaries	62,000
Store Managers Salary	14,000
Shoe Department Sales Commissions	8,000
Store Utilities	13,000
Shoe Department Manager's Salary	9,000
Store Lease Cost	11,000
Store Janitorial Costs	11,000
Other Store Costs	98,000

The Shoe Department is one of many departments in the home town store. The direct costs of the Shoe Department total:

- A. \$80,000
- B. \$88,000
- C. \$97,000**
- D. \$108,000

$$80,000 + 8,000 + 9,000 = \$97,000.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-23 Direct Cost

Topic: 02-24 Indirect Cost

21. Which of the following best defines an opportunity cost?

- A. The difference in total costs from selecting one alternative instead of another.
- B. The benefit forgone by selecting one alternative instead of another.**
- C. A cost that may be saved by NOT adopting an alternative.
- D. A cost that may be shifted to the future with little or no effect on current operations.

Blooms: Remember

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-07 Describe the cost classifications used in making decisions: differential costs; opportunity costs; and sunk costs.

Topic: 02-27 Opportunity Cost

22. To what does the term differential cost refer?

- A.** A difference in cost that results from selecting one alternative instead of another.
- B. The benefit forgone by selecting one alternative instead of another.
- C. A cost that does not entail any dollar outlay, but which is relevant to the decision-making process.
- D. A cost that continues to be incurred even though there is no activity.

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-07 Describe the cost classifications used in making decisions: differential costs; opportunity costs; and sunk costs.

Topic: 02-26 Differential Cost and Revenue

23. Which of the following costs is often important in decision making, but is omitted from conventional accounting records?

- A. Fixed cost.
- B. Sunk cost.
- C.** Opportunity cost.
- D. Indirect cost.

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-07 Describe the cost classifications used in making decisions: differential costs; opportunity costs; and sunk costs.

Topic: 02-27 Opportunity Cost

24. When a decision is made among a number of alternatives, the benefit that is lost by choosing one alternative over another is called what?

- A. Realized cost.
- B.** Opportunity cost.
- C. Conversion cost.
- D. Accrued cost.

Blooms: Remember

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-07 Describe the cost classifications used in making decisions: differential costs; opportunity costs; and sunk costs.

Topic: 02-27 Opportunity Cost

25. What does conversion cost consist of?

- A. Manufacturing overhead cost.
- B. Direct materials and direct labour cost.
- C. Direct labour cost.
- D.** Direct labour and manufacturing overhead cost.

Blooms: Remember

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-06 Manufacturing Overhead

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

26. Prime cost consists of direct materials and what?

- A.** Direct labour.
- B. Manufacturing overhead.
- C. Indirect materials.
- D. Cost of goods manufactured.

Blooms: Remember

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-06 Manufacturing Overhead

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

27. Which one of the following costs should **NOT** be considered a direct cost of serving a particular customer who orders a customized personal computer by phone directly from the manufacturer?

- A. The cost of the hard disk drive installed in the computer.
- B. The cost of shipping the computer to the customer.
- C.** The cost of leasing a machine on a monthly basis that automatically tests hard disk drives before they are installed in computers.
- D. The cost of packaging the computer for shipment.

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-23 Direct Cost

Topic: 02-24 Indirect Cost

28. Which one of the following costs should **NOT** be considered an indirect cost of serving a particular customer at a Dairy Queen fast food outlet?

- A.** The cost of the hamburger patty in the burger the customer ordered.
- B. The wages of the employee who takes the customer's order.
- C. The cost of heating and lighting the kitchen.
- D. The salary of the outlet's manager.

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-23 Direct Cost

Topic: 02-24 Indirect Cost

29. Green Company's costs for the month of August are as follows:

Direct materials used	\$27,000
Direct labour	\$34,000
Sales salaries	\$14,000
Indirect labour	\$10,000
Indirect materials	\$15,000
General corporate administrative cost	\$12,000
Taxes on manufacturing facility	\$2,000
Rent on factory	\$17,000

The beginning work-in-process inventory is \$16,000 and the ending work-in-process inventory is \$9,000. What is the cost of goods manufactured for the month?

- A. \$105,000.
- B. \$132,000.
- C. \$138,000.
- D. \$112,000.**

DM + DL + MOH + WIP B.I. - WIP E.I.

27,000 + 34,000 + (10,000 + 15,000 + 2,000 + 17,000) + 16,000 - 9,000 = \$112,000.

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

30. A manufacturing company prepays its insurance coverage for a three-year period. The premium for the three years is \$2,700 and is paid at the beginning of the first year. Eighty percent of the premium applies to manufacturing operations and 20% applies to selling and administrative activities. What amounts should be considered product costs and period costs respectively for the first year of coverage?

Chapter 02 - Cost Terms, Concepts, and Classifications

	Product Costs	Period Costs
A)	\$2,700	\$0
B)	\$2,160	\$540
C)	\$1,440	\$360
D)	\$720	\$180

- A. Option A
- B. Option B
- C. Option C
- D.** Option D

$(\$2,700/3) * 80\%$ and $(\$2,700/3) * 20\%$.

Blooms: Analyze

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

31. You have the following data:

Cost of goods sold	\$70
Direct labour	\$20
Direct materials	\$15
Cost of goods manufactured	\$80
Work-in-process ending	\$10
Finished goods ending	\$15
Manufacturing overhead	\$30

Which of the following represents the beginning work-in-process inventory?

- A. \$20.
- B. \$15.
- C. \$55.
- D.** \$25.

$$\text{CGM} + \text{EI} - \text{Manufacturing Costs} = 80 + 10 - (15 + 20 + 30) = \$25.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

32. During the month of May, Bennett Manufacturing Company purchases \$43,000 of raw materials. The manufacturing overhead totals \$27,000 and the total manufacturing costs are \$106,000. Assuming a beginning inventory of raw materials of \$8,000 and an ending inventory of raw materials of \$6,000, what must be the total for direct labour?

- A. \$34,000.
- B. \$38,000.
- C. \$36,000.
- D. \$45,000.

DM used = $8,000 + 43,000 - 6,000 = \$45,000$.

DL = $106,000 - 45,000 - 27,000 = \$34,000$.

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

33. You are given the following data for January:

Direct materials	\$38,000
Direct labour	\$24,000
Manufacturing overhead	\$17,000
Beginning work in process inventory	\$10,000
Ending work in process inventory	\$11,000

Which of the following is the cost of goods manufactured?

- A. \$89,000.
- B.** \$78,000.
- C. \$79,000.
- D. \$80,000.

$$38,000 + 24,000 + 17,000 + 10,000 - 11,000 = \$78,000.$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

34. During the month of June, Reardon Company incurs \$17,000 of direct labour and \$8,500 of manufacturing overhead, and purchases \$15,000 of raw materials. Between the beginning and the end of the month, the raw-materials inventory increases by \$2,000, the finished goods inventory increases by \$1,500, and the work-in-process inventory decreases by \$3,000. What is the cost of goods manufactured?

- A. \$38,500.
- B. \$40,500.
- C.** \$41,500.
- D. \$43,500.

Chapter 02 - Cost Terms, Concepts, and Classifications

RM purchased	\$15,000
LESS: Increase in RM inv.	<u>2,000</u>
RM used	\$13,000
+ DL	17,000
+ MOH	<u>8,500</u>
= Total Man. Costs	\$38,500
ADD: Decrease in WIP inv.	<u>3,000</u>
CGM	\$41,500

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

35. Mueller Company reports the following data for the year just ended:

Raw materials used in production	\$800,000
Direct labour	\$700,000
Total overhead costs	\$900,000
Ending work in process inventory	\$400,000
Cost of goods manufactured	\$2,500,000

What was the beginning work-in-process inventory?

- A. \$300,000.
- B. \$500,000.**
- C. \$1,300,000.
- D. \$100,000.

C.G.M. + E.I. - Man. Costs

$$(2,500,000 + 400,000 - 800,000) - 700,000 - 900,000 = \$500,000.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

36. Williams Company's direct labour cost is 25% of its conversion cost. If the manufacturing overhead cost for the last period is \$45,000 and the direct materials cost is \$25,000, what is the direct labour cost?

- A. \$15,000.
- B. \$60,000.
- C. \$33,333.
- D. \$20,000.

Let $x = CC$ (conversion costs)

$CC = DL + OH$

$x = .25x + 45,000$

$x = 60,000$ Therefore $DL\ 60,000 \times .25 = \$15,000$.

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

37. The Lyons Company's cost of goods manufactured was \$120,000 when its sales were \$360,000 and its gross margin was \$220,000. If the ending inventory of finished goods was \$30,000, what was the beginning inventory of finished goods?

- A. \$20,000.
- B. \$50,000.**
- C. \$110,000.
- D. \$150,000.

$$\text{CGS} = \text{Sales} - \text{gross margin} = \$360,000 - \$220,000 = 140,000$$

$$\text{B.I.} = \text{CGS} + \text{E.I.} - \text{CGM}$$

$$\text{B.I.} = 140,000 + 30,000 - 120,000 = \$50,000.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

38. The gross margin for Cushing Company for the first quarter of last year was \$325,000 when sales were \$700,000. The beginning inventory of finished goods was \$60,000, and the ending inventory of finished goods was \$85,000. What was the cost of goods manufactured for the first quarter?

- A. \$375,000.
- B. \$350,000.
- C. \$400,000.**
- D. \$385,000.

$$\text{CGM} = \text{CGS} + \text{EI} - \text{BI}$$

$$= (700,000 - 325,000) + 85,000 - 60,000 = \$400,000.$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

39. Last month, a manufacturing company had the following operating results:

Beginning finished goods inventory	\$74,000
Ending finished goods inventory	\$73,000
Sales	\$464,000
Gross margin	\$52,000

What was the cost of goods manufactured for the month?

- A. \$413,000
- B. \$411,000**
- C. \$412,000
- D. \$463,000

$$\begin{aligned}\text{CGM} &= \text{CGS} + \text{EI} - \text{BI} \\ &= (464,000 - 52,000) + 73,000 - 74,000 = \$411,000.\end{aligned}$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

40. The following information was provided by Wilson Company for the year just ended:

Beginning finished goods inventory	\$150,750
Ending finished goods inventory	\$140,475
Sales	\$475,000
Gross margin	\$150,000

What was the cost of goods manufactured for the year?

- A. \$314,725.
- B. \$335,275.
- C. \$325,000.
- D. \$464,725.

$$\text{CGM} = \text{CGS} + \text{EI} - \text{BI}$$

$$(475,000 - 150,000) + 140,475 - 150,750 = \$314,725.$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

41. The following information was provided by Grand Company for the year just ended:

Decrease in finished goods inventory	\$4,655
Sales	\$500,000
Gross margin	\$100,000

What was the cost of goods manufactured for the year?

- A. \$95,345.
- B. \$104,655.
- C. \$395,345.**
- D. \$404,655.

CGM = CGS - decrease in FG inventory

CGM = (500,000 - 100,000) - 4,655 = \$395,345.

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

42. The following inventory valuation errors were discovered by Knox Corporation's new controller just after the annual financial statements were published at the end of Year 3.

The year 3 ending inventory was understated by \$17,000.

The year 2 ending inventory was understated by \$61,000.

The year 1 ending inventory was overstated by \$23,000.

The net income for Knox in each of these years was:

	Year 3	Year 2	Year 1
Net income	\$168,000	\$254,000	\$138,000

Assuming there were no income taxes, what was the adjusted net income in each year?

	Year 3	Year 2	Year 1
A)	\$212,000	\$170,000	\$161,000
B)	\$124,000	\$338,000	\$115,000
C)	\$90,000	\$338,000	\$161,000
D)	\$124,000	\$170,000	\$115,000

A. Option A

B. Option B

C. Option C

D. Option D

When BI is overstated Net Income is understated. When EI is overstated Net Income is overstated.

Chapter 02 - Cost Terms, Concepts, and Classifications

Year 1	$NI = 138,000 - 23,000 = \$115,000$
Year 2	BI is overstated by 23,000, EI understated by 61,000. $NI = 254,000 + 84,000 = \$338,000$
Year 3	BI is understated by 61,000, EI understated 17,000 $NI = 168,000 - 61,000 + 17,000 = \$124,000$

Blooms: Evaluate

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-17 Inventoriable Costs

43. Delta Merchandising, Inc., has provided the following information for the year just ended:

Net sales	\$128,500
Beginning inventory	\$24,000
Purchases	\$80,000
Gross margin	\$38,550

What was the ending inventory for the company at year-end?

- A. \$65,450.
- B. \$24,500.
- C. \$14,050.
- D. \$9,950.

$$EI = BI + \text{Purchases} - CGS$$

$$EI = 24,000 + 80,000 - (128,500 - 38,550) = \$14,050.$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

44. The beginning balance of the raw materials inventory account for May was \$27,500. The ending balance for May was \$28,750, and \$128,900 of raw materials were used during the month. What was the cost of the materials purchased during the month?

- A. \$131,300.
- B. \$127,650.
- C. \$130,150.**
- D. \$157,650.

$$\begin{aligned}\text{RM purchased} &= \text{RM used} + \text{EI} - \text{BI} \\ &= 128,900 + 28,750 - 27,500 = \$130,150.\end{aligned}$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

45. Gabel Inc. is a merchandising company. Last month, the company's merchandise purchases totalled \$63,000. The company's beginning merchandise inventory was \$13,000, and its ending merchandise inventory was \$15,000. What was the company's cost of goods sold for the month?

- A. \$91,000.
- B. \$63,000.
- C. \$65,000.
- D.** \$61,000.

$$\text{CGS} = \text{BI} + \text{Purchases} - \text{EI} = 13,000 + 63,000 - 15,000 = \$61,000.$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

46. Haack Inc. is a merchandising company. Last month, the company's cost of goods sold was \$84,000. The company's beginning merchandise inventory was \$20,000, and its ending merchandise inventory was \$18,000. What was the total amount of the company's merchandise purchases for the month?

- A. \$86,000.
- B.** \$82,000.
- C. \$84,000.
- D. \$122,000.

$$\text{Purchases} = \text{CGS} + \text{EI} - \text{BI} = 84,000 + 18,000 - 20,000 = \$82,000.$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

47. During January, the cost of goods manufactured was \$93,000. The beginning finished goods inventory was \$16,000, and the ending finished goods inventory was \$20,000. What was the cost of goods sold for the month?

- A. \$129,000.
- B. \$89,000.**
- C. \$93,000.
- D. \$97,000.

$$\text{CGS} = \text{BI} + \text{CGM} - \text{EI} = 16,000 + 93,000 - 20,000 = \$89,000.$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

48. Sally Smith is employed in the production of various electronic products, and she earns \$8 per hour. She is paid time-and-a-half for work in excess of 40 hours per week. During a given week, she worked 45 hours and had no idle time. How much of her week's wages would be charged to manufacturing overhead?

- A. \$60.
- B. \$20.**
- C. \$40.
- D. \$0.

$$(45 - 40) \text{ hours} = 5 \text{ hours overtime. MOH} = 5 \times 8 \times 0.5 = \$20.$$

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-05 Direct Labour

Topic: 02-06 Manufacturing Overhead

Topic: 02-07 Classification of Manufacturing Labour Costs

49. During the first week of April, Gillian worked a total of 50 hours assembling products and had no idle time. Gillian is paid \$15 per hour for regular time, and is paid time-and-a-half for all hours in excess of a 40-hour week. How much of Gillian's wages for the week should be charged to direct labour?

- A. \$600.
- B. \$225.
- C. \$750.**
- D. \$975.

50 hours * \$15/hr. = \$750.

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-05 Direct Labour

Topic: 02-06 Manufacturing Overhead

Topic: 02-07 Classification of Manufacturing Labour Costs

50. Robert Smith earns \$16 per hour assembling products. For each hour over 40 he works in a week he is paid time-and-a-half. During a given week, he worked 40 hours for which 3 hours were idle time. How much of his weekly wages would be charged to direct labour?

- A. \$640.
- B. \$592.**
- C. \$688.
- D. \$48.

37 hrs. * \$16/hr = \$592.

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-07 Classification of Manufacturing Labour Costs

The following data (in thousands of dollars) have been taken from the accounting records of Karling Corporation for the year just ended.

Chapter 02 - Cost Terms, Concepts, and Classifications

Sales	\$990
Raw materials inventory, beginning	\$40
Raw materials inventory, ending	\$70
Purchases of raw materials	\$120
Direct labour	\$200
Manufacturing overhead	\$230
Administrative expenses	\$150
Selling expenses	\$140
Work-in-process inventory, beginning	\$70
Work-in-process inventory, ending	\$50
Finished goods inventory, beginning	\$120
Finished goods inventory, ending	\$160

51. What was the cost (in thousands of dollars) of the raw materials used in production during the year?

- A. \$190.
- B. \$90.**
- C. \$150.
- D. \$160.

$$\text{Cost of RM used} = \text{RM BI} + \text{Purchases RM} - \text{RM EI} = 40 + 120 - 70 = \$90.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

52. What was the cost of goods manufactured (finished) for the year (in thousands of dollars)?

- A. \$540.**
- B. \$500.
- C. \$570.
- D. \$590.

$$\begin{aligned}\text{CGM} &= \text{Cost of RM used} + \text{DL} + \text{OH} + \text{WIP BI} - \text{WIP EI} \\ &= 90 + 200 + 230 + 70 - 50 = \$540.\end{aligned}$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

53. What was the cost of goods sold (in thousands of dollars) for the year?

- A. \$700.
- B. \$500.**
- C. \$660.
- D. \$580.

$$\text{CGS} = \text{BI} + \text{CGM} - \text{EI} = 120 + 540 - 160 = \$500.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

54. What was the net income (in thousands of dollars) for the year?

- A. \$150.
- B. \$200.**
- C. \$490.
- D. \$250.

$$\begin{aligned}\text{NI} &= \text{Sales} - \text{CGS} - \text{Admin. Expenses} - \text{Selling Expenses} \\ &= 990 - 500 - 150 - 140 = \$200.\end{aligned}$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

The following data (in thousands of dollars) have been taken from the accounting records of Karlana Corporation for the year just ended.

Chapter 02 - Cost Terms, Concepts, and Classifications

Sales	\$910
Raw materials inventory, beginning	\$80
Raw materials inventory, ending	\$20
Purchases of raw materials	\$100
Direct labour	\$130
Manufacturing overhead	\$200
Administrative expenses	\$160
Selling expenses	\$140
Work-in-process inventory, beginning	\$40
Work-in-process inventory, ending	\$10
Finished goods inventory, beginning	\$130
Finished goods inventory, ending	\$150

55. What was the cost of the raw materials used in production (in thousands of dollars) during the year?

- A. \$180.
- B. \$40.
- C. \$120.
- D.** \$160.

$$\text{RM used} = \text{RM BI} + \text{RM Purchases} - \text{RM EI} = 80 + 100 - 20 = \$160.$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

56. What was the cost of goods manufactured (finished) for the year (in thousands of dollars)?

- A. \$530.
- B.** \$520.
- C. \$500.
- D. \$460.

$$\begin{aligned}\text{CGM} &= \text{DM used} + \text{DL} + \text{OH} + \text{BI WIP} - \text{EI WIP} \\ &= 160 + 130 + 200 + 40 - 10 = \$520.\end{aligned}$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

57. What was the cost of goods sold for the year (in thousands of dollars)?

- A. \$530.
- B. \$520.
- C. \$500.**
- D. \$460.

$$\text{CGS} = \text{BI} + \text{CGM} - \text{EI} = 130 + 520 - 150 = \$500.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

58. What was the net income (in thousands of dollars) for the year?

- A. \$410.
- B. \$110.**
- C. \$40.
- D. \$180.

$$\begin{aligned}\text{NI} &= \text{Sales} - \text{CGS} - \text{Admin. Expenses} - \text{Selling expenses} \\ &= 910 - (130 + 520 - 150) - 160 - 140 = \$110.\end{aligned}$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

The following data (in thousands of dollars) have been taken from the accounting records of Karlist Corporation for the just completed year.

Chapter 02 - Cost Terms, Concepts, and Classifications

Sales	\$800
Raw materials inventory, beginning	\$60
Raw materials inventory, ending	\$70
Purchases of raw materials	\$180
Direct labour	\$100
Manufacturing overhead	\$190
Administrative expenses	\$110
Selling expenses	\$150
Work-in-process inventory, beginning	\$70
Work-in-process inventory, ending	\$80
Finished goods inventory, beginning	\$120
Finished goods inventory, ending	\$160

59. What was the cost of the raw materials used in production (in thousands of dollars) during the year?

- A. \$240.
- B. \$190.
- C. \$170.
- D. \$250.

Cost of RM used = RM BI + RM Purchases - RM EI = 60 + 180 - 70 = \$170.

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

60. What was the cost of goods manufactured (finished) for the year (in thousands of dollars)?

- A. \$450.
- B. \$460.
- C. \$530.
- D. \$540.

CGM = RM used + DL + OH + BI WIP - EI WIP
= 170 + 100 + 190 + 70 - 80 = \$450.

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

61. What was the cost of goods sold (in thousands of dollars) for the year?

- A. \$610.
- B.** \$410.
- C. \$490.
- D. \$570.

$$\text{CGS} = \text{BI} + \text{CGM} - \text{EI} = 120 + 450 - 160 = \$410.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

62. What was the Gross Margin (in thousands of dollars) for the year?

- A. \$350.
- B. \$130.
- C.** \$390.
- D. \$190.

$$\text{GM} = \text{Sales} - \text{CGS} = 800 - 410 = \$390.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

The following data pertain to Harriman Company's operations during July:

Chapter 02 - Cost Terms, Concepts, and Classifications

	July 1	July 31
Raw materials	0	\$5,000
Work-in-process inventory	?	\$4,000
Finished goods inventory	\$12,000	?

Other data:	
Cost of goods manufactured	\$105,000
Raw materials used	\$40,000
Manufacturing overhead costs	\$20,000
Direct labour costs	\$39,000
Gross Margin	\$100,000
Sales	\$210,000

63. What was the beginning work-in-process inventory?

- A. \$10,000.
- B. \$14,000.
- C. \$1,000.
- D. \$4,000.

$$\begin{aligned}\text{BI WIP} &= \text{CGM} + \text{EI WIP} - \text{RM used} - \text{DL} - \text{OH} \\ &= 105,000 + 4,000 - 40,000 - 39,000 - 20,000 = \$10,000.\end{aligned}$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

64. What was the ending finished goods inventory?

- A. \$17,000.
- B. \$12,000.
- C. \$7,000.
- D. \$2,000.

$$\begin{aligned}\text{EI} &= \text{BI} + \text{CGM} - \text{CGS} \\ &= 12,000 + 105,000 - (210,000 - 100,000) = \$7,000.\end{aligned}$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

Bergeron Inc. reported the following data for last year:

Chapter 02 - Cost Terms, Concepts, and Classifications

Work-in-process inventory, beginning	\$100
Work-in-process inventory, ending	\$150
Finished goods inventory, beginning	\$180
Finished goods inventory, ending	\$200
Direct labour cost	\$300
Direct materials cost	\$500
Manufacturing overhead cost	\$400

65. Which of the following is the prime cost?

- A. \$900.
- B.** \$800.
- C. \$1,200.
- D. \$700.

Prime cost = DM + DL = 500 + 300 = \$800.

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

66. Which of the following is the conversion cost?

- A.** \$700.
- B. \$800.
- C. \$900.
- D. \$1,200.

CC = DL + OH = 300 + 400 = \$700.

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

67. Which of the following is the cost of goods manufactured?

- A. \$1,250.
- B. \$1,200.
- C. \$1,220.
- D.** \$1,150.

$$\begin{aligned}\text{CGM} &= \text{DM} + \text{DL} + \text{OH} + \text{WIP BI} - \text{WIP EI} \\ &= 500 + 300 + 400 + 100 - 150 = \$1,150.\end{aligned}$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

Geneva Steel Corporation produces large sheets of heavy gauge steel. The company showed the following amounts relating to its production for the year just completed:

Direct materials used in production	\$110,000
Direct labour cost for the year	\$55,000
Work in process, beginning	\$22,000
Finished goods, beginning	\$45,000
Cost of goods available for sale	\$288,000
Cost of goods sold	\$238,000
Work in process, ending	\$16,000

68. What was the balance of the finished goods inventory at the end of the year?

A. \$95,000.

B. \$50,000.

C. \$193,000.

D. \$45,000.

EI = Cost of Goods Available for sale - Cost of Goods Sold

= 288,000 - 238,000 = \$50,000.

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

69. What was the cost of goods manufactured for the year?

- A. \$171,000.
- B. \$160,000.
- C. \$243,000.**
- D. \$244,000.

$$\begin{aligned}\text{CGM} &= \text{Cost of Goods Available for sale} - \text{Finished Goods B.I.} \\ &= 288,000 - 45,000 = \$243,000.\end{aligned}$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

70. What was the manufacturing overhead cost for the year?

- A. \$84,000.
- B. \$78,000.
- C. \$56,000.
- D. \$72,000.**

$$\begin{aligned}\text{Compute Total Manufacturing Costs} &= \text{CGM} + \text{EI WIP} - \text{BI WIP} \\ &= 243,000 + 16,000 - 22,000 = \$237,000\end{aligned}$$

Then compute manufacturing overhead = Total Man. Costs - DM - DL

$$\text{Manufacturing overhead} = 237,000 - 110,000 - 55,000 = \$72,000.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

Boardman Company reported the following data for the month of January:

Inventories:	1/1	1/31
Raw materials	\$32,000	\$31,000
Work in process	\$18,000	\$12,000
Finished goods	\$30,000	\$35,000

Additional information:	
Sales revenue	\$210,000
Direct labour costs	\$40,000
Manufacturing overhead costs	\$70,000
Selling expenses	\$25,000
Administrative expenses	\$35,000

71. If raw materials costing \$35,000 were purchased during January, what were the total manufacturing costs for the month?

- A. \$145,000.
- B. \$144,000.
- C. \$151,000.
- D. \$146,000.**

$$\begin{aligned}\text{TMC} &= \text{DM used} + \text{DL} + \text{MOH} \\ &= (32,000 + 35,000 - 31,000) + 40,000 + 70,000 = \$146,000.\end{aligned}$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

72. Assuming that cost of goods sold for January was \$124,000, what was the net income for January?

- A. \$61,000.
- B. \$26,000.**
- C. \$51,000.
- D. \$25,000.

$$\begin{aligned}\text{NI} &= \text{Sales} - \text{CGS} - \text{Selling Exp.} - \text{Admin. Exp.} \\ &= 210,000 - 124,000 - 25,000 - 35,000 = \$26,000.\end{aligned}$$

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

73. Which of the following is Boardman Company's total conversion cost for January?

- A. \$110,000.
- B. \$170,000.
- C. \$135,000.
- D. \$130,000.

$$CC = DL + OH = 40,000 + 70,000 = \$110,000.$$

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

74. Assuming that cost of goods sold for Boardman Company for January was \$140,000, what was the cost of goods manufactured for the month?

- A. \$140,000
- B. \$135,000
- C. \$145,000
- D. \$139,000

$$CGM = COGS + EI - BI = 140,000 + 35,000 - 30,000 = \$145,000.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

At a sales volume of 32,000 units, CD Company's total fixed costs are \$64,000 and total variable costs are \$60,000. The relevant range is 30,000 to 55,000 units.

75. If CD Company sells 43,000 units, what is the total expected cost (Do not round your intermediate calculations)?

- A. \$146,000.
- B. \$166,625.
- C. \$144,625.**
- D. \$124,000.

$$\text{VC/unit} = \$60,000 / 32,000 \text{ units} = \$1.875/\text{unit}$$

$$\text{Total Cost} = \text{VC} + \text{FC}$$

$$= 43,000 * 1.875 + 64,000 = \$144,625.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-20 Variable Cost

Topic: 02-21 Fixed Cost

76. If CD Company sells 50,000 units, what is the total expected cost per unit? (Do not round intermediate computations). Round final answer to the nearest cent.

- A. \$3.20.
- B. \$2.48.
- C. \$3.88.
- D. \$3.16.**

$$\text{VC/unit} = 60,000 / 32,000 = \$1.875/\text{unit}$$

$$\text{TC} = \text{VC} + \text{FC} = 50,000 * 1.875 + 64,000 = \$157,750$$

$$\text{Expected Cost/unit} = 157,750 / 50,000 = 3.155 = \$3.16/\text{unit}.$$

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-20 Variable Cost

Topic: 02-21 Fixed Cost

True / False Questions

77. All costs incurred in a merchandising firm are considered to be period costs.

FALSE

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

78. In a manufacturing firm, depreciation is always considered a product cost for external financial reporting purposes.

FALSE

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

79. In external financial reports, factory utilities costs may be included in an asset account on the balance sheet at the end of the period.

TRUE

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-06 Manufacturing Overhead

Topic: 02-07 Classification of Manufacturing Labour Costs

80. Advertising costs are considered product costs for external financial reports since they are incurred in order to promote specific products.

FALSE

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-08 Non-manufacturing Costs

Topic: 02-10 Product Costs

81. Property taxes and insurance premiums paid on a factory building are examples of manufacturing overhead.

TRUE

Blooms: Remember

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-06 Manufacturing Overhead

82. Manufacturing overhead combined with direct materials is known as conversion cost.

FALSE

Blooms: Remember

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-06 Manufacturing Overhead

Topic: 02-10 Product Costs

83. If the ending inventory of finished goods is understated, net income will be overstated.

FALSE

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

84. In a manufacturing company, goods available for sale equals the sum of the cost of goods manufactured and the beginning finished goods inventory.

TRUE

Blooms: Understand

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-14 The Income Statement

85. Variable costs are costs whose per unit costs vary as the activity level rises and falls.

FALSE

Blooms: Remember

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-20 Variable Cost

86. On a per unit basis, a fixed cost varies inversely with the level of activity.

TRUE

Blooms: Remember

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-21 Fixed Cost

87. The following would typically be considered indirect costs of manufacturing a particular Boeing 747 to be delivered to Singapore Airlines: electricity to run production equipment, the factory manager's salary, and the cost of the General Electric jet engines installed on the aircraft.

FALSE

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Easy

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-23 Direct Cost

Topic: 02-24 Indirect Cost

88. When raw materials are used in production, their costs are transferred to the work in process inventory account as direct materials.

TRUE

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-16 Product Costs—A Closer Look

Topic: 02-17 Inventoriable Costs

89. The following costs should be considered by a law firm to be indirect costs of defending a particular client in court: rent on the law firm's offices, the law firm's receptionist's wages, the costs of heating the law firm's offices, and the depreciation on the personal computer in the office of the attorney who has been assigned the client.

TRUE

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-24 Indirect Cost

90. As goods are completed their cost is transferred from the Work in Process account to the Finished Goods account where they await sale to customer.

TRUE

Blooms: Remember

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-16 Product Costs—A Closer Look

91. Some companies classify labour fringe benefits for direct labour workers as part of the direct labour cost and some classify these costs as manufacturing overhead.

TRUE

Blooms: Remember

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-07 Classification of Manufacturing Labour Costs

Short Answer Questions

92. Stony Electronics Corporation manufactures a portable radio designed for mounting on the wall of the bathroom. The following list represents some of the different types of costs incurred in the manufacture of these radios:

- 1) The plant manager's salary.
- 2) The cost of heating the plant.
- 3) The cost of heating executive offices.
- 4) The cost of printed circuit boards used in the radios.
- 5) Salaries and commissions of company salespersons.
- 6) Depreciation on office equipment used in the executive offices.
- 7) Depreciation on production equipment used in the plant.
- 8) Wages of janitorial personnel who clean the plant.
- 9) The cost of insurance on the plant building.
- 10) The cost of electricity to light the plant.
- 11) The cost of electricity to power plant equipment.
- 12) The cost of maintaining and repairing equipment in the plant.
- 13) The cost of printing promotional materials for trade shows.
- 14) The cost of solder used in assembling the radios.
- 15) The cost of telephone service for the executive offices.

Required:

Classify each of the items above as product (inventoriable) cost or period (noninventoriable) costs for the purpose of preparing external financial statements.

Chapter 02 - Cost Terms, Concepts, and Classifications

- 1) Product.
- 2) Product.
- 3) Period.
- 4) Product.
- 5) Period.
- 6) Period.
- 7) Product.
- 8) Product.
- 9) Product.
- 10) Product.
- 11) Product.
- 12) Product.
- 13) Period.
- 14) Product.
- 15) Period.

Blooms: Understand

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Easy

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

93. Bill Pope has developed a new device that is so exciting he is considering quitting his job in order to produce and market it on a large-scale basis. Bill will rent a garage for \$300 per month for production purposes. Utilities will cost \$40 per month. Bill has already taken an industrial design course at the local community college to help prepare for this venture. The course cost \$300. Bill will rent production equipment at a monthly cost of \$800. He estimates the material cost will be \$5 per unit, and the labour cost will be \$3 per unit. He will hire workers and spend his time promoting the product. To do this, he will quit his job, which pays \$3,000 per month. Advertising and promotion will cost \$900 per month.

Required:

Complete the chart below by placing an "X" under each heading that helps to identify the cost involved. You can place an "X" under more than one heading for a single cost: for example, a cost may be a sunk cost, an overhead cost, and a product cost; you would place an "X" under each of these headings opposite the cost.

*** Between the alternatives of going into business to make the device or not going into business to make the device. See columnheading "Differential Cost".**

	Opportunity Cost	Sunk Cost	Variable Cost	Fixed Cost	Mfg. Overhead	Product Cost	Selling Cost	Differential Cost
Garage rent								
Utilities								
Cost of the industrial design course								
Equipment rented								
Material cost								
Labour cost								
Present salary								
Advertising								

* Between the alternatives of going into business to make the device or not going into business to make the device.

	Opportunity Cost	Sunk Cost	Variable Cost	Fixed Cost	Mfg. Overhead	Product Cost	Selling Cost	Differential Cost
Garage rent				X	X	X		X
Utilities				X	X	X		X
Cost of the industrial design course		X						
Equipment rented				X	X	X		X
Material cost			X			X		X
Labour cost			X			X		X
Present salary	X							X
Advertising				X			X	X

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Learning Objective: 02-07 Describe the cost classifications used in making decisions: differential costs; opportunity costs; and sunk costs.

Topic: 02-10 Product Costs

Topic: 02-20 Variable Cost

Topic: 02-23 Direct Cost

Topic: 02-26 Differential Cost and Revenue

94. Logan Products, a small manufacturer, has submitted the items below concerning last year's operations. The president's secretary, trying to be helpful, has alphabetized the list.

Administrative salaries	\$2,400
Advertising expense	\$1,200
Depreciation - factory building	\$800
Depreciation - factory equipment	\$1,600
Depreciation - office equipment	\$180
Direct labour cost	\$21,900
Raw materials inventory, beginning	\$2,100
Raw materials inventory, ending	\$3,200
Finished goods inventory, beginning	\$46,980
Finished goods inventory, ending	\$44,410
General liability insurance expense	\$240
Indirect labour cost	\$11,800
Insurance on factory	\$1,400
Purchases on raw materials	\$14,600
Repairs and maintenance of factory	\$900
Sales salaries	\$2,000
Taxes on factory	\$450
Travel and entertainment expense	\$1,410
Work-in-process inventory, beginning	\$1,670
Work-in-process inventory, ending	\$1,110

Required:

- Prepare a schedule of cost of goods manufactured in good form for the year.
- Determine the cost of goods sold for the year.

a.) LOGAN COMPANY

Schedule of Cost of Goods Manufactured

Raw materials used:		
Beginning inventory	\$2,100	
Purchases	<u>14,600</u>	
Available	16,700	
Less ending inventory	<u>3,200</u>	\$13,500
Direct labour		21,900
Manufacturing overhead:		
Depreciation - factory building	800	
Depreciation - factory equipment	1,600	
Indirect labor cost	11,800	
Insurance on factory	1,400	
Repairs and maintenance	900	
Taxes on factory	<u>450</u>	<u>16,950</u>
Total manufacturing cost		52,350
Add work in process inventory, beginning		<u>1,670</u>
		54,020
Less work in process inventory, ending		<u>1,110</u>
Cost of goods manufactured		<u>\$52,910</u>

b.)

Finished goods inventory, beginning	\$46,980
Cost of goods manufactured (above)	<u>52,910</u>
Available for sale	99,890
Less finished goods inventory, ending	<u>44,410</u>
Cost of goods sold	<u>\$55,480</u>

Chapter 02 - Cost Terms, Concepts, and Classifications

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

95. Lake Company recorded the following data for the month of January 20xx:

Inventories	January 1, 20xx	January 31, 20xx
Direct Material	\$24,000	\$23,000
Work in Process	18,000	15,000
Finished Goods	22,000	27,000

Additional Data:

Net Sales Revenue	\$325,000
Direct Labour Costs	40,000
Indirect Labour Costs	45,000
Sales Commissions	15,000
Administrative Expenses	18,000
Direct Materials Purchased during January	30,000
Depreciation, factory	10,000
Factory Maintenance and Supplies	8,000
Utilities, (80% factory , 20% office)	25,000
General Office Salaries	12,000

Required:

- Compute the amount of direct materials used in January.
- List and total the Manufacturing Overhead costs for the month of January.
- Compute the Cost of Goods Manufactured.

Note: It may be helpful to prepare a Cost of Goods Manufactured statement in rough form but it is not required. You may use short forms in your answers for DM, DL etc.

Chapter 02 - Cost Terms, Concepts, and Classifications

a:

D.M. Jan. 1	\$24,000
Add: D.M. purchased	<u>30,000</u>
	\$54,000
Less: D.M. Jan. 3	<u>23,000</u>
Direct Material Used	<u>\$31,000</u>

b:

Indirect Labour	\$45,000
Depreciation, factory	10,000
Factory Maintenance and Supplies	8,000
Utilities, factory (25,000 * 80%)	<u>20,000</u>
Total Man. Overhead	<u>\$83,000</u>

c:

DM	\$31,000
DL	40,000
MOH	<u>83,000</u>
Total Man. Costs	\$154,000
Add: WIP, Jan. 1	<u>18,000</u>
	\$172,000
Less: WIP, Jan. 31	<u>15,000</u>
Cost Goods Man.	<u>\$157,000</u>

Blooms: Analyze

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

Topic: 02-14 The Income Statement

96. The accounts for a manufacturing company for an accounting period are listed below. Find the unknown amounts indicated by question marks.

Sales	\$39,000
Cost of goods sold	?
Purchases of direct materials	\$11,000
Direct labour	\$5,000
Finished goods inventory, beginning	\$5,000
Work in process, beginning	\$800
Work in process, ending	\$3,000
Gross margin	\$11,700
Finished goods inventory, ending	?
Accounts payable, beginning	\$4,000
Accounts payable, ending	\$2,800
Direct materials inventory, beginning	\$1,000
Direct materials inventory, ending	\$3,000
Indirect labour	\$2,000
Indirect materials used	\$4,000
Utilities expense, factory	\$3,000
Depreciation on factory equipment	\$7,000

Cost of goods sold = \$39,000 - \$11,700 = \$27,300.

Direct materials used = \$1,000 + \$11,000 - \$3,000 = \$9,000.

Cost of goods manufactured = \$9,000 + \$5,000 + (\$2,000 + \$4,000 + \$3,000 + \$7,000) + \$800 - \$3,000 = \$27,800.

Finished goods inventory, ending = \$5,000 + \$27,800 - \$27,300 = \$5,500.

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

97. Use the following information to determine the gross margin for Pacific States Manufacturing for the year just ended (all amounts are in thousands of dollars):

Sales	\$31,800
Purchases of direct materials	\$7,000
Direct labour	\$5,000
Work in process, 1/1	\$800
Work in process, 1/31	\$3,000
Finished goods inventory, 1/1	\$4,000
Finished goods inventory, 1/31	\$5,300
Accounts payable, 1/1	\$1,700
Accounts payable, 1/31	\$1,500
Direct materials inventory, 1/1	\$6,000
Direct materials inventory, 1/31	\$1,000
Indirect labour	\$600
Indirect materials used	\$500
Utilities expense, factory	\$1,900
Depreciation on factory equipment	\$3,500

Direct materials used = \$6,000 + \$7,000 - \$1,000 = \$12,000.

Cost of goods manufactured = \$12,000 + \$5,000 + (\$600 + \$500 + \$1,900 + \$3,500) + \$800 - \$3,000 = \$21,300.

Cost of goods sold = \$4,000 + \$21,300 - \$5,300 = \$20,000.

Gross margin = \$31,800 - \$20,000 = \$11,800.

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

98. The following information is from Marchant Manufacturing Co. for September:

Direct materials used in production	\$95,000
Direct labour	\$67,000
Total manufacturing cost	\$234,000
Raw materials inventory, Sept. 1	\$24,000
Work-in-process inventory, Sept. 1	\$6,000
Finished goods inventory, Sept. 1	\$101,000
Purchases of raw materials	\$102,000
Cost of goods manufactured	\$233,000
Administrative expense	\$41,000
Selling expense	\$56,000
Sales	\$344,000
Gross margin	\$127,000
Net income	\$30,000

Required:

- Compute the cost of goods sold.
- Compute the balance in finished goods inventory at September 30.
- Compute the balance in work-in-process inventory at September 30.
- Compute the balance in raw materials inventory at September 30.
- Compute the total manufacturing overhead.

(Hint: The easiest method of solving this problem is to sketch out the income statement and the schedule of cost of goods manufactured, enter the given amounts, and then enter the unknowns as plug figures.)

MARCHANT MANUFACTURING
Schedule of Cost of Goods Manufactured

Direct materials used:	
Inventory, Sept. 1	\$24,000
Purchases	<u>102,000</u>
	126,000
Inventory, Sept. 30 (d) - plug	<u>31,000</u>
Direct materials used - given	95,000
Direct labour	67,000
Manufacturing overhead (e) - plug	<u>72,000</u>
Total manufacturing cost - given	234,000
Inventory of work in process, Sept. 1	<u>6,000</u>
	240,000
Inventory of work in process, Sept. 30 (c) - plug	<u>7,000</u>
Cost of goods manufactured - given	<u>\$233,000</u>

MARCHANT MANUFACTURING
Income Statement

Sales		\$344,000
Cost of goods sold:		
Finished goods, Sept. 1	\$101,000	
Cost of goods manufactured - above	<u>\$233,000</u>	
Available for sale		334,000
Finished goods, Sept. 30 (b) - plug		<u>117,000</u>
Cost of goods sold (a) - plug		<u>217,000</u>
Gross margin - given		127,000
Operating expenses:		
Administrative expenses	41,000	
Selling expenses	<u>56,000</u>	<u>97,000</u>
Net income - given		<u>\$30,000</u>

Chapter 02 - Cost Terms, Concepts, and Classifications

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

99. The following data (in thousands of dollars) have been taken from the accounting records of Larsen Corporation for the year just ended:

Sales	\$860
Purchases of raw materials*	\$150
Direct labour	\$110
Manufacturing overhead	\$210
Administrative expenses	\$130
Selling expenses	\$180
Raw materials inventory, beginning*	\$40
Raw materials inventory, ending*	\$80
Work in process inventory, beginning	\$20
Work in process inventory, ending	\$80
Finished goods inventory, beginning	\$80
Finished goods inventory, ending	\$150

Required:

- (a.) Prepare a schedule of cost of goods manufactured in good form.
 - (b.) Compute the cost of goods sold.
 - (c.) Using data from your answers above as needed, prepare an income statement in good form.
- (a.) Schedule of cost of goods manufactured.

Direct materials:		
Raw materials inventory, beginning	\$40	
Add: Purchases of raw materials	<u>150</u>	
Raw materials available for use	\$190	
Deduct: Raw materials in inventory, ending	<u>80</u>	
Raw materials used in production		\$110
Direct labour		110
Manufacturing overhead		<u>210</u>
Total manufacturing cost		\$430
Add: Work-in-process inventory, beginning		<u>20</u>
		\$450
Deduct: Work-in-process inventory, ending		<u>80</u>
Cost of goods manufactured		<u>\$370</u>

(b.) Computation of cost of goods sold

Finished goods inventory, beginning	\$80
Add: Cost of goods manufactured	<u>\$370</u>
Goods available for sale	\$450
Deduct: Finished goods inventory, ending	<u>\$150</u>
Cost of goods sold	<u>\$300</u>

(c.) Income statement

Chapter 02 - Cost Terms, Concepts, and Classifications

Sales		\$860
Deduct: Cost of goods sold		<u>300</u>
Gross margin		\$560
Operating expenses:		
Administrative expenses	\$130	
Selling expenses	<u>180</u>	<u>210</u>
Net income		<u>\$250</u>

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

100. The following data (in thousands of dollars) have been taken from the accounting records of Larner Corporation for the year just completed:

Sales	\$870
Purchases of raw materials*	\$110
Direct labour	\$130
Manufacturing overhead	\$200
Administrative expenses	\$160
Selling expenses	\$140
Raw materials inventory, beginning*	\$30
Raw materials inventory, ending*	\$60
Work in process inventory, beginning	\$50
Work in process inventory, ending	\$10
Finished goods inventory, beginning	\$150
Finished goods inventory, ending	\$140

Required:

- (a.) Prepare a schedule of cost of goods manufactured in good form.
- (b.) Compute the cost of goods sold.
- (c.) Using data from your answers above as needed, prepare an income statement in good form.

- (a.) Schedule of cost of goods manufactured

Direct materials:		
Raw materials inventory, beginning	\$30	
Add: Purchases of raw materials	<u>110</u>	
Raw materials available for use	\$140	
Deduct: Raw materials in inventory, ending	<u>60</u>	
Raw materials used in production		\$80
Direct labour		130
Manufacturing overhead		<u>200</u>
Total manufacturing cost		\$410
Add: Work-in-process inventory, beginning		<u>50</u>
		\$460
Deduct: Work-in-process inventory, ending		<u>10</u>
Cost of goods manufactured		<u>\$450</u>

(b.) Computation of cost of goods sold

Finished goods inventory, beginning	\$150
Add: Cost of goods manufactured	<u>\$450</u>
Goods available for sale	\$600
Deduct: Finished goods inventory, ending	<u>\$140</u>
Cost of goods sold	<u>\$460</u>

(c.) Income statement

Chapter 02 - Cost Terms, Concepts, and Classifications

Sales		\$870
Deduct: Cost of goods sold		<u>460</u>
Gross margin		\$410
Operating expenses:		
Administrative expenses	\$160	
Selling expenses	<u>140</u>	<u>210</u>
Net income		<u>\$110</u>

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

101. The following data (in thousands of dollars) have been taken from the accounting records of Larmont Corporation for the year just completed:

Sales	\$990
Purchases of raw materials*	\$100
Direct labour	\$240
Indirect labour	\$100
Indirect material	\$10
Other Factory Overhead	\$100
Administrative expenses	\$100
Selling expenses	\$140
Raw materials inventory, beginning*	\$20
Raw materials inventory, ending*	\$80
Work in process inventory, beginning	\$50
Work in process inventory, ending	\$30
Finished goods inventory, beginning	\$160
Finished goods inventory, ending	\$150

*Raw Materials Inventory consist of both direct and indirect materials.

Required:

- Prepare a schedule of cost of goods manufactured in good form.
- Compute the cost of goods sold.
- Using data from your answers above as needed, prepare an income statement in good form.

- Schedule of cost of goods manufactured

Note: For calculation of Direct Materials used you must remember to take out the portion that is indirect material.

Direct materials:		
Raw materials inventory, beginning	\$20	
Add: Purchases of raw materials	<u>100</u>	
Raw materials available for use	\$120	
Deduct: Raw materials inventory, ending	<u>80</u>	
Raw materials used in production	\$40	
Less: Indirect Material	<u>10</u>	
Direct Material used		\$30
Direct labour		240
Manufacturing overhead:		
Indirect labour	\$100	
Indirect material	10	
Other Manufacturing Overhead	<u>100</u>	
Total Manufacturing Overhead		<u>210</u>
Total Manufacturing Cost		\$480
Add: Work-in-process inventory, beginning		<u>50</u>
		\$530
Deduct: Work-in-process inventory, ending		<u>30</u>
Cost of goods manufactured		<u>\$500</u>

(b.) Computation of cost of goods sold

Chapter 02 - Cost Terms, Concepts, and Classifications

Finished goods inventory, beginning	\$160
Add: Cost of goods manufactured	<u>\$500</u>
Goods available for sale	\$660
Deduct: Finished goods inventory, ending	<u>\$150</u>
Cost of goods sold	<u>\$510</u>

(c.) Income statement

Sales		\$990
Deduct: Cost of goods sold		<u>510</u>
Gross margin		\$480
Operating expenses:		
Administrative expenses	\$100	
Selling expenses	<u>140</u>	<u>240</u>
Net income		<u>\$240</u>

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-06 Manufacturing Overhead

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

102. The following costs relate to one month's activity in Martin Company:

Indirect materials	\$300
Rent on factory building	\$500
Maintenance of equipment	\$50
Direct material used	\$1,200
Utilities on factory	\$250
Direct labour	\$1,500
Selling expense	\$500
Administrative expense	\$300
Work in process inventory, beginning	\$600
Work in process inventory, ending	\$800
Finished goods inventory, beginning	\$500
Finished goods inventory, ending	\$250

Required:

- Prepare a schedule of cost of goods manufactured in good form.
- Determine the cost of goods sold.
- Assume Martin Company produced the equivalent of 500 units during this particular month. What was the average cost per unit for direct materials? For rent on factory building?
- Assume next month Martin Company plans to produce 600 units of product. What average cost per unit and total cost would you expect to be incurred for direct material?, for rent?

a)

Direct materials:		\$1,200
Direct labour		1,500
Manufacturing overhead:		
Indirect materials	\$300	
Rent	500	
Maintenance	50	
Utilities	<u>250</u>	<u>1,100</u>
Total manufacturing costs		3,800
Add: WIP, beginning		<u>600</u>
		4,400
Deduct: WIP, ending		<u>800</u>
Cost of goods manufactured		<u>\$3,600</u>

b)

Finished goods, beginning		\$500
Add: Cost of goods manufactured		<u>3,600</u>
Goods available for sale		4,100
Finished goods, ending		<u>250</u>
Cost of goods sold		<u>\$3,850</u>

c. Direct material $\$1,200/500\text{units} = \2.40 per unit

Rent $\$500/500 = \1.00 per unit

d. Average cost per unit for Direct Material remains at \$2.40 for a total of \$1,440 ($600 * \$2.40$).

Average cost per unit for Rent will be \$0.83 ($\$500/600$) and the total remains at \$500. Fixed costs per unit decrease as activity increases.

Blooms: Apply

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Learning Objective: 02-05 Explain the differences between variable and fixed costs.

Topic: 02-07 Classification of Manufacturing Labour Costs

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

Topic: 02-20 Variable Cost

103. Brooke Foster is employed by Wong Laboratories, Inc., and is directly involved in preparing and packaging the company's leading sleep aid, RestWell. Brooke's basic wage rate is \$15 per hour, and she is paid time-and-a-half for any work in excess of 40 hours per week. Additionally, Wong Laboratories provides a fringe benefit package that costs the company \$5 for each hour of employee time (regular or overtime). During a recent week, Brooke worked 49 hours but was idle for 3 hours due to materials shortages.

Required:

- (a.) Assume that Wong Laboratories treats all fringe benefits as part of manufacturing overhead. Compute Brooke's total wages and fringe benefits for the week and indicate how much of her wages and fringe benefits for the week would be allocated to direct labour and how much would be allocated to manufacturing overhead.
- (b.) Assume that Wong Laboratories treats the part of fringe benefits related to direct labour as a component of direct labour cost. Compute Brooke's total wages and fringe benefits for the week and indicate how much of her wages and fringe benefits would be allocated to direct labour and how much would be allocated to manufacturing overhead.

(a.)

Regular time: 40 hours × \$15	\$600.00
Overtime: 9 hours × \$22.50	202.50
Fringe benefits: 49 hours × \$5	<u>245.00</u>
Total wages and fringe benefits	<u>\$1,047.50</u>
Allocation of wages and fringe benefits:	
Direct labour: 46 hrs × \$15	\$690.00
Manufacturing overhead:	
Idle time: 3 hrs × \$15	45.00
Overtime premium: 9 hrs × \$7.50	67.50
Fringe benefit: 49 hrs × \$5	<u>245.00</u>
Total wages and fringe benefits	<u>\$1,047.50</u>

(b.) Total wages and fringe benefits would be \$1,047.50 as shown in (a.) above.
Allocation of wages and fringe benefits:

Direct labour:	
Wage cost: 46 hrs × \$15	\$690.00
Fringe benefits: 46 hrs × \$5	<u>230.00</u>
Total direct labour	<u>\$920.00</u>
Manufacturing overhead:	
Idle time: 3 hrs × \$15	45.00
Overtime premium: 9 hrs × \$7.50	67.50
Fringe benefit: 3 hrs × \$5	<u>15.00</u>
Total manufacturing overhead	\$127.50
Total wages and fringe benefits	<u>\$1,047.50</u>

Blooms: Analyze

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Hard

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-05 Direct Labour

Topic: 02-07 Classification of Manufacturing Labour Costs

104. Fred Adams is employed by the Cedar Manufacturing Company on their assembly line. Fred is paid \$15 per hour for regular time, and time-and-a-half for all work in excess of 40 hours per week. During the two weeks of the pay period just completed, Fred reported the following:

Week 1:	
Idle time due to machine breakdowns	3 hours
Idle time due to material shortages	2 hours
Overtime	None
Week 2:	
Idle time	None
Overtime	9 hours

Required:

Compute Fred's wages for each week and allocate Fred's wages for each week between direct labour cost and manufacturing overhead.

Week 1:

Fred's wages equal 40 hours $\times$ \$15 per hour, or \$600.

Fred's wages would be allocated between direct labour and manufacturing overhead as follows:

Direct labour cost: 35 hours $\times$ \$15	\$525.00
Manufacturing overhead: 5 hours $\times$ \$15	<u>75.00</u>
Total	<u>\$600.00</u>

Week 2:

Fred's wages equal:

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40 hours × \$15 per hour	\$600.00
9 hours × \$22.50 per hour	<u>202.50</u>
Total wages for Week 2	<u>\$802.50</u>

Fred's wages would be allocated between direct labour and manufacturing overhead as follows:

Direct labour cost: 49 hours × \$15 per hour	\$735.00
Manufacturing overhead: 9 hours × \$7.50	<u>67.50</u>
Total	<u>\$802.50</u>

Blooms: Analyze

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

Difficulty: Medium

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Topic: 02-05 Direct Labour

Topic: 02-07 Classification of Manufacturing Labour Costs

105. The following inventory and cost data for the just completed year are taken from the accounting records of Sankar Company:

Inventories	
Increase in raw materials	\$4,000
Increase in work in process	30,000
Decrease in finished goods	90,000
Costs incurred	
Advertising expense	\$200,000
Direct labour cost	180,000
Purchases of raw materials	264,000
Rent, factory building	60,000
Indirect factory labour	112,600
Sales commissions	70,000
Utilities, factory	18,000
Maintenance, factory equipment	48,000
Supplies, factory	1,400
Depreciation, office equipment	16,000
Depreciation, factory equipment	80,000

Required:

- (a.) Calculate the cost of goods manufactured.
- (b.) Calculate the cost of goods sold

(a.)

Direct material used:		
Purchases of raw materials	\$264,000	
Deduct: Increase in raw materials	<u>4,000</u>	\$260,000
Direct labour cost		180,000
Manufacturing overhead cost incurred:		
Rent, factory building	\$60,000	
Indirect factory labour	112,600	
Utilities, factory	18,000	
Maintenance, factory equipment	48,000	
Supplies, factory	1,400	
Depreciation, factory equipment	<u>80,000</u>	<u>320,000</u>
Total manufacturing cost added		\$760,000
Deduct: Increase in work in process inventory		<u>30,000</u>
Cost of goods manufactured		<u>\$730,000</u>

(b.)

Cost of goods manufactured	\$730,000
Add: Decrease in finished goods inventory	<u>90,000</u>
Cost of goods sold	<u>\$820,000</u>

Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

106. The following selected account balances for the year ended December 31 are provided for Amita Company:

Purchases of raw materials	\$260,000
Direct labour	65,000
Maintenance, factory	74,000
Selling and administrative salaries	179,000
Depreciation, factory equipment	110,000
Cleaning supplies	6,000
Sales commissions	350,000
Utilities, factory building	52,000
Rent, factory	90,000
Depreciation, sales equipment	80,000
Insurance, factory equipment	8,000
Advertising expense	300,000

In addition, you have the following information about inventories during the year:

Increase in raw materials	\$10,000
Decrease in work in process	\$15,000
Decrease in finished goods	\$30,000

Cleaning supplies are in the factory.
Assume the company uses FIFO.

Required:

- (a.) Calculate the cost of goods manufactured.
- (b.) Calculate the cost of goods sold.

(a.) Cost of goods manufactured during the year.

Direct material used:		
Purchases of raw materials	\$260,000	
Deduct: Increase in raw materials	<u>10,000</u>	\$250,000
Direct labour cost		65,000
Manufacturing overhead cost incurred:		
Maintenance, factory	\$74,000	
Depreciation, factory equipment	110,000	
Cleaning supplies, factory	6,000	
Utilities, factory	52,000	
Rent, factory building	90,000	
Insurance, factory equipment	<u>8,000</u>	<u>340,000</u>
Total manufacturing cost added		\$655,000
Add: Decrease in work in process inventory		<u>15,000</u>
Cost of goods manufactured		<u>\$670,000</u>

(b.)

Cost of goods manufactured	<u>\$670,000</u>
Add: decrease in finished goods inventory	<u>30,000</u>
Cost of Goods Sold	<u>\$700,000</u>

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Blooms: Analyze

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

107. Mary Tappin, an assistant Vice President at Galaxy Toys, was disturbed to find on her desk a memo from her boss, Gary Resnick, to the controller of the company. The memo appears below:

Galaxy Toys Internal Memo

Sept 15

To: Harry Wilson, Controller

Fm: Gary Resnick, Executive Vice President

As you know, we won't start recording many sales until October when stores start accepting shipments from us for the Christmas season. Meanwhile, we are producing flat-out and are building up our finished goods inventories so that we will be ready to ship next month.

Unfortunately, we are in a bind right now since it looks like the net income for the quarter ending on Sept 30 is going to be pretty awful. This may get us in trouble with the bank since they always review the quarterly financial reports and may call in our loan if they don't like what they see. Is there any possibility that we could change the classification of some of our period costs to product costs--such as the rent on the finished goods warehouse?

Please let me know as soon as possible. The President is pushing for results.

Mary didn't know what to do about the memo. It wasn't intended for her, but its contents were alarming.

Required:

- a. Why has Gary Resnick suggested reclassifying some period costs as product costs?
- b. Why do you think Mary was alarmed about the memo?

- a. Gary Resnick has suggested reclassifying some period costs as product costs since the company is building up large finished goods inventories in anticipation of the Christmas selling season. Product costs are inventoried and flow through to the income statement only when products are sold. Period expenses, in contrast, flow directly to the income statement. Since most of the finished goods inventories will be held over to the next quarter, reclassifying period costs as product costs will effectively defer recognition of expenses until next quarter and therefore will improve the current quarter's net operating income.
- b. Mary Tappin is probably alarmed by both the economic situation the company finds itself in and by the apparent willingness of top management to bend the rules. Improperly reclassifying costs is an indication that top management does not feel like it has to play by the rules or be honest in its dealings with the bank. With such loose ethical standards, Mary may wonder what other things they are doing that are unethical and/or illegal.

Blooms: Evaluate

CPA Competency: 3.1.2 Evaluates the types of information systems used and the role they play in an organization

CPA Competency: 3.3.1 Evaluates cost classifications and costing methods for management of ongoing operations.

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-11 Period Costs

Topic: 02-14 The Income Statement

Topic: 02-16 Product Costs—A Closer Look

Topic: 02-17 Inventoriable Costs

108. For the majority of manufacturing companies, the distinction between period costs and product costs is essential because of its effect on net income for a period. Failure to make the distinction can affect the cost of goods manufactured and cost of goods sold.

Required:

Would the need to make the distinction between product costs and period costs still be essential if a manufacturing company were to adopt the just-in-time technique in the lean thinking model? Explain.

The need for the distinction would not be essential in terms of its impact on net income. There will literally be no inventories of any kind (raw materials, work-in-process, and finished goods). Cost of goods manufactured will equal all the manufacturing costs incurred (nothing to be held back as product costs or assets in either raw materials inventory or work-in-process inventory). Cost of goods sold will also equal cost of goods manufactured (again because nothing will be held back as product cost in finished goods inventory). All manufacturing costs will be released to the income statement and therefore, in essence, treated as period costs.

Blooms: Evaluate

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

Topic: 02-14 The Income Statement

Topic: 02-17 Inventoriable Costs

109. The following data (in thousands of dollars) have been taken from the accounting records of Karling Corporation for the year just ended.

Sales	\$990
Direct Materials Used	\$90
Direct labour	\$200
Manufacturing overhead	\$230
Administrative expenses	\$150
Selling expenses	\$140
Work in process, beginning	\$70
Work in process, ending	\$50
Finished goods inventory, beginning	\$120
Finished goods inventory, ending	\$160

Required:

- Compute the Cost of Goods Manufactured
- Compute Cost of Goods Sold
- What is the Gross Margin for the Year?
- Compute Net Operating Income.

a. $CGM = DM + DL + MOH + WIP\ beg. - WIP\ end. = 90 + 200 + 230 + 70 - 50 = \540

b. $CGS = Fin.\ Goods\ beg. + CGM - Fin.\ Goods\ end = 120 + 540 - 160 = \500

c. $GM = Sales - CGS = 990 - 500 = \490

d. $Net\ Op.\ Income = GM - Operating\ Expenses = 490 - (150 + 140) = \200

Blooms: Apply

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Medium

Learning Objective: 02-02 Distinguish between product costs and period costs; and give examples of each.

Learning Objective: 02-03 Prepare an income statement; including the calculation of cost of goods sold.

Learning Objective: 02-04 Prepare a schedule of cost of goods manufactured.

Topic: 02-10 Product Costs

Topic: 02-11 Period Costs

Topic: 02-14 The Income Statement

110. Manufacturing overhead is one of the three elements of manufacturing costs. Unlike direct materials and direct labour costs, assigning manufacturing overhead cost to products can be a very difficult task.

Required:

Do you agree with this aspect of manufacturing overhead? Why or why not?

The response is an emphatic yes (note: this response may not be so obvious to many students at this stage of the course). Manufacturing overhead costs are indirect in the sense that they cannot be conveniently traced to particular products. Some of these costs are consumed in very small amounts and therefore tracing is not cost-effective. Others may be common costs because they are consumed jointly by several products. An example is the straight-line depreciation cost of factory equipment used to manufacture multiple products. It is almost impossible to trace such cost to individual products.

Manufacturing overhead costs are, therefore, assigned to products only by using some allocation base, such as some aspects of direct labour (for example; direct labour hours and direct labour cost). Choosing an appropriate allocation is not easy since there are usually several competing ones. Overhead application is covered in more detail in chapter 5. It should be noted that recent advances in technology and managerial accounting techniques are making it possible to conveniently (and economically) trace some of the so-called overhead costs to products. Some of these advances (for example, activity-based costing and bar coding) will be covered in later topics.

Blooms: Create

CPA Competency: 3.3.2 Evaluates and applies cost management techniques appropriate for specific costing decisions.

Difficulty: Hard

Learning Objective: 02-01 Identify and give examples of each of the three basic manufacturing cost categories.

Learning Objective: 02-06 Identify the differences between direct and indirect costs.

Topic: 02-06 Manufacturing Overhead

Topic: 02-07 Classification of Manufacturing Labour Costs

Topic: 02-23 Direct Cost

Topic: 02-24 Indirect Cost