# Test Bank for Introduction to Managerial Accounting 7th Edition Brewer Garrison and Noreen 0078025796 9780078025792 

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Chapter 02

Job-Order Costing

True / False Questions

The use of a predetermined overhead rate in a job-order cost system makes it possible to compute the total cost of a job before production is begun.

True False
If direct labor-hours is used as the allocation base in a job-order costing system, but overhead costs are not caused by direct-labor hours, then jobs with high direct labor requirements will tend to be undercosted relative to jobs with low direct labor requirements.

True False

The formula for computing the predetermined overhead rate is:
Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base

True False
. When the predetermined overhead rate is based on direct labor-hours, the amount ofoverhead applied to a job is proportional to the estimated amount of direct labor-hours for the job.

True False

The cost of a completed job in a job-order costing system typically consists of the actual direct materials cost of the job, the actual direct labor cost of the job, and the manufacturing overhead cost applied to the job.

True False

I Job cost sheets are used to record the costs of preparing routine accountingreports.

True False

In a job-order cost system, direct labor is assigned to a job using information from the employee time ticket.

True False

1 The cost categories that appear on a job cost sheet include selling expense, manufacturing expense, and administrative expense.

True False

1. When completed goods are sold, the transaction is recorded as a debit to Cost of Goods Sold and a credit to Finished Goods.

True False

1 The following entry would be used to record depreciation on manufacturingequipment:

| Work in Process | XXX |  |
| :---: | :---: | :---: |
| Accumulated Depreciation |  | XXX |

True False

1 The sum of all amounts transferred from the Work in Process account to the Finished Goods account represents the Cost of Goods Sold for the period.

True False
l. Indirect materials are charged to specificjobs.

True False

1 When a job is completed, the goods are transferred from the production department to the finished goods warehouse and the journal entry would include a debit to Work in Process.

True False
! Manufacturing overhead is overapplied if actual manufacturing overhead costs for a period are greater than the amount of manufacturing overhead cost that was charged to Work in Process.

True False

1 If the actual manufacturing overhead cost for a period exceeds the manufacturing overhead cost applied, then manufacturing overhead would be considered to be underapplied.

True False

## Multiple Choice Questions

1 Emco Company uses direct labor cost as a basis for computing its predetermined overhead rate. In computing the predetermined overhead rate for last year, the company misclassified a portion of direct labor cost as indirect labor. The effect of this misclassification will beto:
A. understate the predetermined overhead rate.
B. overstate the predetermined overhead rate.
C. have no effect on the predetermined overhead rate.
D. cannot be determined from the information given.

1. Departmental overhead rates are generally preferred to plant-wide overhead rateswhen:
A. the activities of the various departments in the plant are nothomogeneous.
B. the activities of the various departments in the plant are homogeneous.
C. most of the overhead costs are fixed.
D. all departments in the plant are heavily automated.

1 In computing its predetermined overhead rate, Brady Company included its factory insurance cost twice. This error will result in:
A. the ending balance of Finished Goods to be understated.
B. the credits to the Manufacturing Overhead account to beunderstated.
C. the Cost of Goods Manufactured to be overstated.
D. the Net Operating Income to be overstated.

Which of the following entries would correctly record the application of overhead cost?
A.


1 What journal entry is made in a job-order costing system when $\$ 8,000$ of materials are requisitioned for general factory use instead of for use in a particularjob?
A.

| Work in Process | $\$ 8,000$ |  |
| ---: | ---: | :--- |
| Manufacturing Overhead |  | $\$ 8,000$ |

B.
C.

| Work in Proces | $\$ 8,000$ |  |
| ---: | :--- | :--- |
| Raw Materials |  | $\$ 8,000$ |

D.

| Manufacturing Overhead | $\$ 8,000$ |  |
| :---: | :--- | :--- |
| Work in Process |  | $\$ 8,000$ |
| Manufacturing Overhead | $\$ 8,000$ |  |
| Raw Materials |  | $\$ 8,000$ |

1. A proper journal entry to record issuing raw materials to be used on a job would be:
A.

| Finished Goods | XXX |  |
| :---: | :---: | :---: |
| Raw Materials |  | XXX |
| Raw Materials | XXX |  |
| Work in Proces |  |  |
| Work in Process | xxx |  |
| Raw Materials |  | xxx |
| Raw Materials | xxx |  |
| Finished Goods |  |  |

1. Which of the following entries would record correctly the monthly salaries earned by the top management of a manufacturing company?


1 In a job-order costing system, the use of indirect materials that have been previously purchased is recorded as a credit to:
A. Work in Process inventory.
B. Manufacturing Overhead.
C. Raw Materials inventory.
D. Finished Goods inventory.
. On the Schedule of Cost of Goods Manufactured, the final Cost of Goods Manufactured figure represents:
A. the amount of cost charged to Work in Process during the period.
B. the amount of cost transferred from Finished Goods to Cost of Goods Sold during the period.
C. the amount of cost placed into production during the period.
D. the amount of cost of goods completed during the current year whether they were started before or during the current year.

1 Overapplied manufacturing overhead means that:
A. the applied manufacturing overhead cost was less than the actual manufacturing overhead cost.
B. the applied manufacturing overhead cost was greater than the actual manufacturing overhead cost.
C. the estimated manufacturing overhead cost was less than the actual manufacturing overhead cost.
D. the estimated manufacturing overhead cost was less than the applied manufacturing overhead cost.

1 Buker Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. Data for the upcoming year appear below:

| Estimated machine-hours | 74,000 |  |
| :--- | ---: | :--- |
| Estimated variable manufacturing overhead | $\$ 7.67$ | per machine-hour |
| Estimated variable manufacturing overhead | $\$ 1,630,960$ |  |

The predetermined overhead rate for the recently completed year was closest to:
A. $\$ 22.04$
B. $\$ 29.59$
C. $\$ 7.67$
D. \$29.71

1 Hibshman Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. At the beginning of the most recently completed year, the Corporation estimated the machine-hours for the upcoming year at 10,000 machine-hours. The estimated variable manufacturing overhead was $\$ 6.82$ per machine-hour and the estimated total fixed manufacturing overhead was $\$ 230,200$. The predetermined overhead rate for the recently completed year was closest to:
A. $\$ 29.84$ per machine-hour
B. $\$ 23.15$ per machine-hour
C. $\$ 23.02$ per machine-hour
D. $\$ 6.82$ per machine-hour

1 CR Corporation has the following estimated costs for the nextyear:

| Direct materials | $\$ 4,000$ |
| :--- | ---: |
| Direct labor | $\$ 20,000$ |
| Rent on factory building | $\$ 15,000$ |
| Sales salaries | $\$ 25,000$ |
| Depreciation on factory equipment | $\$ 8,000$ |
| Indirect labor | $\$ 10,000$ |
| Production supervisor's salary | $\$ 12,000$ |

CR Corporation estimates that 20,000 labor-hours will be worked during the year. If overhead is applied on the basis of direct labor-hours, the overhead rate per hour will be:
A. $\$ 2.25$
B. $\$ 3.25$
C. $\$ 3.45$
D. $\$ 4.70$
29. Jameson Corporation uses a predetermined overhead rate based on direct labor-hours to apply manufacturing overhead to jobs. The Corporation has provided the following estimated costs for the next year:

| Direct materials | $\$ 5,000$ |
| :--- | ---: |
| Direct labor | $\$ 19,000$ |
| Rent on factory building | $\$ 16,000$ |
| Sales salaries | $\$ 24,000$ |
| Depreciation on factory equipment | $\$ 7,000$ |
| Indirect labor | $\$ 11,000$ |
| Production supervisor's salary | $\$ 14,000$ |

Jameson estimates that 24,000 direct labor-hours will be worked during the year. The predetermined overhead rate per hour will be:
A. $\$ 2.00$
B. $\$ 2.79$
C. $\$ 3.00$
D. $\$ 4.00$
30. Paulson Corporation uses a predetermined overhead rate based on machine-hours to apply manufacturing overhead to jobs. The Corporation has provided the following estimated costs for next year:

| Direct materials | $\$ 25,000$ |
| :--- | ---: |
| Direct labor | $\$ 22,000$ |
| Advertising expense | $\$ 15,000$ |
| Rent on factory building | $\$ 13,500$ |
| Depreciation on factory equipment | $\$ 6,500$ |
| Indirect materials | $\$ 10,000$ |
| Sales salaries | $\$ 28,000$ |
| Insurance on factory equipment | $\$ 12,000$ |

Paulson estimated that 40,000 direct labor-hours and 20,000 machine-hours would be worked during the year. The predetermined overhead rate per machine-hour will be:
A. $\$ 1.60$
B. $\$ 2.10$
C. $\$ 1.00$
D. $\$ 1.05$
31. Aksamit Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. Data for the most recently completed year appearbelow:

| Estimates made at the beginning of the year: |  |  |
| :--- | ---: | :--- |
| Estimated machine-hours | 62,000 |  |
| Estimated variable manufacturing overhead | $\$ 7.03$ | per machine-hour |
| Estimated total fixed manufacturing overhead | $\$ 1,486,140$ |  |
| Actual machine-hours for the year | 61,100 |  |

The predetermined overhead rate for the recently completed year was closest to:
A. $\$ 23.97$
B. $\$ 31.00$
C. $\$ 7.03$
D. \$31.35
32. Sirmons Corporation bases its predetermined overhead rate on the estimated labor-hours for the upcoming year. At the beginning of the most recently completed year, the Corporation estimated the labor-hours for the upcoming year at 70,000 labor-hours. The estimated variable manufacturing overhead was $\$ 9.93$ per labor-hour and the estimated total fixed manufacturing overhead was $\$ 1,649,200$. The actual labor-hours for the year turned out to be 74,000 labor-hours. The predetermined overhead rate for the recently completed year was closestto:
A. $\$ 32.22$
B. \$9.93
C. \$33.49
D. $\$ 23.56$
33. The Work in Process inventory account of a manufacturing Corporation shows a balance of $\$ 18,000$ at the end of an accounting period. The job cost sheets of the two uncompleted jobs show charges of $\$ 6,000$ and $\$ 3,000$ for materials, and charges of $\$ 4,000$ and $\$ 2,000$ for direct labor.
From this information, it appears that the Corporation is using a predetermined overhead rate, as a percentage of direct labor costs, of:
A. 50\%
B. $200 \%$
C. $300 \%$
D. $20 \%$
3. The following T-accounts have been constructed from last year's records at C\&C Manufacturing:

| Raw Materials |  |  |  |
| :--- | ---: | ---: | ---: |
| Bal | 10,000 | (b) | 252,000 |
| (a) | 247,000 |  |  |
|  | 5,000 |  |  |


| Work In Process |  |  |  |
| :--- | ---: | ---: | ---: |
| Bal | 6,000 | (f) | 506,000 |
| (b) | 161,000 |  |  |
| (c) | 154,000 |  |  |
| (e) | 192,500 |  |  |
|  | 7,500 |  |  |


| Finished Goods |  |  |
| :--- | ---: | ---: |
| Bal | 0 | (g) |
| 500,000 |  |  |
| (f) | 506,000 |  |
|  | 6,000 |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | ---: |
| (b) | 91,000 | (e) | 192,500 |
| (c) | 26,000 |  |  |
| (d) | 78,000 |  |  |
|  | 195,000 |  | 192,500 |
|  | 2,500 | (h) | 2,500 |



C\&C Manufacturing uses job-order costing with a predetermined overhead rate and applies manufacturing overhead to jobs based on direct labor costs. What is the predetermined overhead rate?
A. $125 \%$
B. $120 \%$
C. $100 \%$
D. 105\%
35. Bradbeer Corporation uses direct labor-hours in its predetermined overhead rate. At the beginning of the year, the estimated direct labor-hours were 17,500 hours. At the end of the year, actual direct labor-hours for the year were 16,000 hours, the actual manufacturing overhead for the year was $\$ 233,000$, and manufacturing overhead for the year was underapplied by $\$ 15,400$. The estimated manufacturing overhead at the beginning of the year used in the predetermined overhead rate must have been:
A. \$249,375
B. $\$ 217,600$
C. \$228,000
D. $\$ 238,000$
36. Dagger Corporation uses direct labor-hours in its predetermined overhead rate. At the beginning of the year, the total estimated manufacturing overhead was $\$ 423,870$. At the end of the year, actual direct labor-hours for the year were 19,400 hours, manufacturing overhead for the year was underapplied by $\$ 5,650$, and the actual manufacturing overhead was $\$ 418,870$. The predetermined overhead rate for the year must have been closest to:
A. $\$ 21.59$
B. $\$ 20.76$
C. $\$ 21.30$
D. $\$ 21.85$
37. Sawyer Manufacturing Corporation uses a predetermined overhead rate based on direct laborhours to apply manufacturing overhead to jobs. Last year, the Corporation worked 57,000 actual direct labor-hours and incurred $\$ 345,000$ of actual manufacturing overhead cost. The Corporation had estimated that it would work 55,000 direct labor-hours during the year and incur \$330,000 of manufacturing overhead cost. The Corporation's manufacturing overhead cost for the year was:
A. overapplied by \$15,000
B. underapplied by $\$ 15,000$
C. overapplied by \$3,000
D. underapplied by \$3,000
38. Clear Colors Corporation uses a predetermined overhead rate based on direct labor costs to apply manufacturing overhead to jobs. At the beginning of the year the Corporation estimated its total manufacturing overhead cost at $\$ 350,000$ and its direct labor costs at $\$ 200,000$. The actual overhead cost incurred during the year was $\$ 362,000$ and the actual direct labor costs incurred on jobs during the year was $\$ 208,000$. The manufacturing overhead for the year wouldbe:
A. \$12,000 underapplied.
B. \$12,000 overapplied.
C. \$2,000 underapplied.
D. \$2,000 overapplied.
3. Cribb Corporation uses direct labor-hours in its predetermined overhead rate. At the beginning of the year, the estimated direct labor-hours were 17,900 hours and the total estimated manufacturing overhead was $\$ 341,890$. At the end of the year, actual direct labor-hours for the year were 16,700 hours and the actual manufacturing overhead for the year was $\$ 336,890$. Overhead at the end of the year was:
A. $\$ 22,920$ underapplied
B. \$17,920 overapplied
C. $\$ 17,920$ underapplied
D. \$22,920 overapplied
4. Brusveen Corporation applies manufacturing overhead to jobs on the basis of direct labor-hours. The following information relates to Brusveen for last year:

|  | Estimated | Actua |
| :--- | ---: | ---: |
| Direct labor-hours | 15,000 | 14,800 |
| Manufacturing overhead cost | $\$ 300,000$ | $\$ 287,120$ |

What was Brusveen's underapplied or overapplied overhead for last year?
A. $\$ 4,000$ underapplied
B. $\$ 8,880$ underapplied
C. $\$ 8,880$ overapplied
D. \$9,000 underapplied
4. Collins Corporation uses a predetermined overhead rate based on direct labor cost to apply manufacturing overhead to jobs. The following information applies to the Corporation for the current year:

| Direct labor-hours: |  |
| :--- | ---: |
| Estimated for the year | 24,000 |
| Actual hours worked | 19,500 |
| Direct labor cost: |  |
| Estimated for the year | $\$ 300,000$ |
| Actual cost incurred | $\$ 210,000$ |
| Manufacturing overhead: |  |
| Estimated for the year | $\$ 240,000$ |
| Actual cost incurred | $\$ 185,000$ |

The manufacturing overhead cost for the current year will be:
A. \$17,000 overapplied
B. $\$ 17,000$ underapplied
C. \$55,000 overapplied
D. $\$ 55,000$ underapplied
4. At the beginning of the year, manufacturing overhead for the year was estimated to be $\$ 477,590$. At the end of the year, actual direct labor-hours for the year were 29,000 hours, the actual manufacturing overhead for the year was $\$ 472,590$, and manufacturing overhead for the year was overapplied by $\$ 110$. If the predetermined overhead rate is based on direct labor-hours, then the estimated direct labor-hours at the beginning of the year used in the predetermined overhead rate must have been:
A. 29,300 direct labor-hours
B. 28,987 direct labor-hours
C. 28,993 direct labor-hours
D. 29,000 direct labor-hours
4. Galbraith Corporation applies overhead cost to jobs on the basis of $70 \%$ of direct labor cost. If Job 201 shows $\$ 28,000$ of manufacturing overhead applied, the direct labor cost on the jobwas:
A. $\$ 40,000$
B. $\$ 19,600$
C. $\$ 28,000$
D. $\$ 36,400$
4. Job 593 was recently completed. The following data have been recorded on its job cost sheet:

| Direct materials | $\$ 3,190$ |  |
| :--- | ---: | :--- |
| Direct labor-hours | 7 | labor-hours |
| Direct labor wage rate | $\$ 15$ | per labor-hour |
| Machine-hours | 175 | machine-hours |

The Corporation applies manufacturing overhead on the basis of machine-hours. The predetermined overhead rate is $\$ 14$ per machine-hour. The total cost that would be recorded on the job cost sheet for Job 593 would be:
A. $\$ 6,705$
B. \$3,219
C. $\$ 5,249$
D. $\$ 4,255$
4. The following data have been recorded for recently completed Job 323 on its job cost sheet. Direct materials cost was $\$ 2,260$. A total of 37 direct labor-hours and 141 machine-hours were worked on the job. The direct labor wage rate is $\$ 13$ per labor-hour. The Corporation applies manufacturing overhead on the basis of machine-hours. The predetermined overhead rate is $\$ 14$ per machinehour. The total cost for the job on its job cost sheet would be:
A. $\$ 3,259$
B. $\$ 2,741$
C. $\$ 4,715$
D. $\$ 2,287$
4. Spectrum Manufacturing had the following information in its records at the end of theyear:

| Predetermined overhead rate |  |
| :--- | ---: |
| Estimated direct labor costs |  |
| Actual direct labor costs |  |


| Manufacturing Overhead |  |
| ---: | ---: |
| 11,000 |  |
| 13,000 |  |
| 78,000 |  |

What was the balance in Manufacturing Overhead, and when closed what will the effect be on gross margin?
A. $\$ 3,000$ underapplied, and increase
B. \$3,000 overapplied, and increase
C. \$3,000 underapplied, and decrease
D. \$3,000 overapplied, and decrease
47. Parsons Corporation uses a predetermined overhead rate based on direct labor-hours to apply manufacturing overhead to jobs. Last year, Parsons Corporation incurred \$250,000 in actual manufacturing overhead cost. The Manufacturing Overhead account showed that overhead was overapplied $\$ 12,000$ for the year. If the predetermined overhead rate was $\$ 8.00$ per direct laborhour, how many hours did the Corporation work during theyear?
A. 31,250 hours
B. 30,250 hours
C. 32,750 hours
D. 29,750 hours
44. During October, Dorinirl Corporation incurred \$60,000 of direct labor costs and \$5,000 of indirect labor costs. The journal entry to record the accrual of these wages would include a:
A. credit to Work in Process of $\$ 60,000$
B. credit to Work in Process of $\$ 65,000$
C. debit to Work in Process of $\$ 65,000$
D. debit to Work in Process of $\$ 60,000$
4. Soledad Corporation had $\$ 36,000$ of raw materials on hand on December 1. During the month, the Corporation purchased an additional $\$ 71,000$ of raw materials. The journal entry to record the purchase of raw materials would include a:
A. credit to Raw Materials of $\$ 71,000$
B. debit to Raw Materials of $\$ 71,000$
C. credit to Raw Materials of $\$ 107,000$
D. debit to Raw Materials of $\$ 107,000$
50. At the beginning of December, Sneeden Corporation had \$32,000 of raw materials on hand. During the month, the Corporation purchased an additional $\$ 71,000$ of raw materials. During December, $\$ 75,000$ of raw materials were requisitioned from the storeroom for use in production. The credits entered in the Raw Materials account during the month of Decembertotal:
A. $\$ 32,000$
B. \$75,000
C. $\$ 71,000$
D. \$103,000
5. On February 1, Manwill Corporation had $\$ 24,000$ of raw materials on hand. During the month, the Corporation purchased an additional $\$ 60,000$ of raw materials. During February, $\$ 54,000$ of raw materials were requisitioned from the storeroom for use in production. The debits entered in the Raw Materials account during the month of February total:
A. $\$ 84,000$
B. $\$ 54,000$
C. $\$ 60,000$
D. $\$ 24,000$
52. Donham Corporation had $\$ 25,000$ of raw materials on hand on May 1. During the month, the Corporation purchased an additional $\$ 65,000$ of raw materials. During May, $\$ 66,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 4,000$. The debits to the Work in Process account as a consequence of the raw materials transactions in Maytotal:
A. \$0
B. \$62,000
C. \$65,000
D. $\$ 66,000$
53. During February at Iniquez Corporation, \$79,000 of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 4,000$. The journal entry to record the requisition from the storeroom would include a:
A. debit to Work in Process of \$79,000
B. debit to Work in Process of $\$ 75,000$
C. credit to Manufacturing Overhead of \$4,000
D. debit to Raw Materials of \$79,000
54. Epolito Corporation incurred $\$ 87,000$ of actual Manufacturing Overhead costs during September. During the same period, the Manufacturing Overhead applied to Work in Process was \$89,000. The journal entry to record the incurrence of the actual Manufacturing Overhead costs would include a:
A. debit to Work in Process of $\$ 89,000$
B. credit to Manufacturing Overhead of $\$ 87,000$
C. debit to Manufacturing Overhead of $\$ 87,000$
D. credit to Work in Process of \$89,000
55. Traves Corporation incurred \$69,000 of actual Manufacturing Overhead costs during October. During the same period, the Manufacturing Overhead applied to Work in Process was \$68,000. The journal entry to record the application of Manufacturing Overhead to Work in Process would include a:
A. debit to Manufacturing Overhead of\$68,000
B. credit to Manufacturing Overhead of\$68,000
C. debit to Work in Process of \$69,000
D. credit to Work in Process of \$69,000
5. During October, Beidleman Inc. transferred \$52,000 from Work in Process to Finished Goods and recorded a Cost of Goods Sold of $\$ 55,000$. The journal entries to record these transactions would include a:
A. credit to Cost of Goods Sold of $\$ 55,000$
B. credit to Work in Process of $\$ 52,000$
C. debit to Finished Goods of $\$ 55,000$
D. credit to Finished Goods of $\$ 52,000$
5. In July, Essinger Inc. incurred $\$ 72,000$ of direct labor costs and $\$ 3,000$ of indirect labor costs. The journal entry to record the accrual of these wages would include a:
A. debit to Manufacturing Overhead of $\$ 3,000$
B. credit to Manufacturing Overhead of $\$ 3,000$
C. credit to Work in Process of $\$ 75,000$
D. debit to Work in Process of \$75,000
58. During May at Shatswell Corporation, $\$ 57,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 7,000$. The journal entry to record this requisition would include a debit to Manufacturing Overhead of:
A. $\$ 57,000$
B. $\$ 7,000$
C. \$0
D. $\$ 50,000$
59. Which of the following entries or sets of entries would record sales for the month of July of $\$ 200,000$ for goods costing $\$ 119,000$ for?

| A. | Accounts Receivable | 200,000 |  |
| :---: | :---: | :---: | :---: |
|  | Sales |  | 200,000 |
| B. | Accounts Receivable | 200,000 |  |
|  | Sales |  | 200,000 |
|  | Cost of Goods Sold | 119,000 |  |
| C. | Work <br> in Process |  | 119,000 |
|  | $\begin{array}{\|l\|l} \hline \text { Cost of } \\ \text { Goods } \\ \text { Sold } \end{array}$ | 119,000 |  |
| D | Net Income | 81,000 |  |
|  | Sales | 200,000 |  |
|  | Accounts Receivable | 200,000 |  |
|  | Sales |  | 200,000 |
|  | Cost of Goods Sold | 119,000 |  |
|  | Finished Goods |  | 119,000 |

6. Bretthauer Corporation has provided data concerning the Corporation's Manufacturing Overhead account for the month of July. Prior to the closing of the overapplied or underapplied balance to Cost of Goods Sold, the total of the debits to the Manufacturing Overhead account was $\$ 51,000$ and the total of the credits to the account was $\$ 64,000$. Which of the following statements is true?
A. Manufacturing overhead transferred from Finished Goods to Cost of Goods Sold during the month was $\$ 51,000$.
B. Manufacturing overhead applied to Work in Process for the month was $\$ 64,000$.
C. Manufacturing overhead for the month was underapplied by $\$ 13,000$.
D. Actual manufacturing overhead incurred during the month was $\$ 64,000$.
7. Arvay Corporation has provided data concerning the Corporation's Manufacturing Overhead account for the month of October. Prior to the closing of the overapplied or underapplied balance to Cost of Goods Sold, the total of the debits to the Manufacturing Overhead account was $\$ 62,000$ and the total of the credits to the account was $\$ 52,000$. Which of the following statements is true?
A. Actual manufacturing overhead incurred during the month was $\$ 52,000$.
B. Manufacturing overhead applied to Work in Process for the month was $\$ 62,000$.
C. Manufacturing overhead for the month was underapplied by $\$ 10,000$.
D. Manufacturing overhead transferred from Finished Goods to Cost of Goods Sold during the month was $\$ 62,000$.
8. Kaleohano Corporation has provided data concerning the Corporation's Manufacturing Overhead account for the month of July. Prior to the closing of the overapplied or underapplied balance to Cost of Goods Sold, the total of the debits to the Manufacturing Overhead account was $\$ 62,000$ and the total of the credits to the account was $\$ 73,000$. Which of the following statements is true?
A. Manufacturing overhead for the month was underapplied by $\$ 11,000$.
B. Manufacturing overhead applied to Work in Process for the month was $\$ 62,000$.
C. Manufacturing overhead transferred from Finished Goods to Cost of Goods Sold during the month was $\$ 73,000$.
D. Actual manufacturing overhead for the month was $\$ 62,000$.
9. The following accounts are from last year's books of Sharp Manufacturing:

| Raw Materials |  |  |  |  |
| :---: | ---: | ---: | ---: | :---: |
| Bal | d | (b) | 87,000 |  |
| (a) | 93,000 |  |  |  |
|  | 6,000 |  |  |  |


| Work In Process |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal | O | (f) | 251,000 |
| (b) | 69,000 |  |  |
| (c) | 82,000 |  |  |
| (e) | 100,000 |  |  |
|  | 0 |  |  |


| Finished Goods |  |  |  |
| ---: | ---: | ---: | ---: |
| Bal | 0 | (g) | 226,000 |
| (f) | 251,000 |  |  |
|  | 25,000 |  |  |


| Manufacturing Overhead |  |  |  |
| :---: | ---: | ---: | ---: |
| (b) | 18,000 | (e |  |
| (c) | 12,000 |  |  |
| (d) | 67,000 |  |  |
| (h) | 3,000 |  |  |

Cost of Goods Sold

| $(\mathrm{g})$ | 226,000 | (h) | 3,000 |
| :--- | ---: | ---: | ---: |
|  | 223,000 |  |  |

Sharp uses job-order costing and applies manufacturing overhead to jobs based on direct labor costs. What is the amount of direct materials used for the year?
A. $\$ 93,000$
B. \$69,000
C. $\$ 87,000$
D. $\$ 82,000$
64. The following accounts are from last year's books at Sharp Manufacturing:

| Raw Materials |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal | d | (b) | 87,000 |
| (a) | 93,000 |  |  |
|  | 5,000 |  |  |


| Work In Process |  |  |  |
| ---: | ---: | ---: | ---: |
| Bal | O | (f) |  |
| (b) | 69,000 |  | 251,000 |
| (c) | 82,000 |  |  |
| (e) | 100,000 |  |  |
|  | 0 |  |  |


| Finished Goods |  |  |  |
| ---: | ---: | ---: | :--- |
| Bal | O | $(\mathrm{g})$ |  |
| (f) | 251,000 |  |  |
|  | 25,000 |  |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | :--- |
| (b) | 18,000 | (e) |  |
| (c) | 12,000 |  |  |
| (d) | 67,000 |  |  |
| (h) | 3,000 |  |  |


| Cost of Goods Sold |  |  |  |
| :--- | :--- | :--- | :--- |
| $(\mathrm{g})$ | 226,000 | (h) |  |


|  | 223,000 |  |
| :--- | :--- | :--- |

Sharp uses job-order costing and applies manufacturing overhead to jobs based on direct labor costs. What is the amount of cost of goods manufactured for the year?
A. $\$ 255,000$
B. $\$ 251,000$
C. \$223,000
D. $\$ 226,000$
65. Compute the amount of raw materials used during August if $\$ 25,000$ of raw materials were purchased during the month and the inventories were asfollows:

|  | Balance | Balance |
| :--- | ---: | ---: |
| Inventories | August | August 31 |
| Raw Materials | $\$ 5,000$ | $\$ 3,000$ |
| Work in process | $\$ 13,000$ | $\$ 16,000$ |
| Finished goods | $\$ 25,000$ | $\$ 27,000$ |

A. $\$ 16,000$
B. \$19,000
C. $\$ 23,000$
D. $\$ 27,000$
6. The following accounts are from last year's books at Sharp Manufacturing:

| Raw Materials |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal |  | (b) | 87,000 |
| (a) | 93,000 |  |  |
|  | 5,000 |  |  |


| Work In Process |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal |  | (f) |  |
| (b) | 69,000 |  |  |
| (c) | 82,000 |  |  |
| (e) | 100,000 |  |  |
|  |  |  |  |


| Finished Goods |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal | 0 | $(\mathrm{~g})$ |  |
| (f) | 251,000 |  |  |
|  | 25,000 |  |  |


| Manufacturing Overhead |  |  |  |
| ---: | ---: | ---: | ---: |
| (b) | 18,000 | (e) | 100,000 |
| (c) | 12,000 |  |  |
| (d) | 67,000 |  |  |
| (h) | 3,000 |  |  |


| Cost of Goods Sold |  |  |  |  |
| :--- | ---: | ---: | ---: | :---: |
| $(\mathrm{g})$ | 226,000 | (h) | 3,000 |  |
|  | 223,000 |  |  |  |

Sharp uses job-order costing and applies manufacturing overhead to jobs based on direct labor costs. What is the manufacturing overapplied or underapplied for the year?
A. \$12,000 overapplied
B. \$12,000 underapplied
C. \$3,000 overapplied
D. \$3,000 underapplied
6. Cerrone Inc. has provided the following data for the month of July. The balance in the Finished Goods inventory account at the beginning of the month was $\$ 39,000$ and at the end of the month was $\$ 47,000$. The cost of goods manufactured for the month was $\$ 188,000$. The actual manufacturing overhead cost incurred was $\$ 71,000$ and the manufacturing overhead cost applied to Work in Process was $\$ 67,000$. The adjusted cost of goods sold that would appear on the income statement for July is:
A. \$196,000
B. $\$ 184,000$
C. $\$ 180,000$
D. $\$ 188,000$
6. Hudek Inc., a manufacturing Corporation, has provided the following data for the month of July. The balance in the Work in Process inventory account was $\$ 20,000$ at the beginning of the month and $\$ 10,000$ at the end of the month. During the month, the Corporation incurred direct materials cost of $\$ 50,000$ and direct labor cost of $\$ 22,000$. The actual manufacturing overhead cost incurred was $\$ 58,000$. The manufacturing overhead cost applied to Work in Process was $\$ 56,000$. The cost of goods manufactured for July was:
A. \$138,000
B. $\$ 140,000$
C. $\$ 130,000$
D. $\$ 128,000$
Q. Stelmack Corporation, a manufacturing Corporation, has provided data concerning its operations for September. The beginning balance in the raw materials account was $\$ 20,000$ and the ending balance was $\$ 27,000$. Raw materials purchases during the month totaled $\$ 63,000$. Manufacturing overhead cost incurred during the month was $\$ 53,000$, of which $\$ 3,000$ consisted of raw materials classified as indirect materials. The direct materials cost for Septemberwas:
A. $\$ 56,000$
B. $\$ 53,000$
C. $\$ 70,000$
D. $\$ 63,000$
70. Smallwood Corporation has provided the following data concerning manufacturing overhead for January:

| Actual manufacturing overhead incurred | $\$ 64,000$ |
| :--- | :--- |
| Manufacturing overhead applied to Work in <br> Process | $\$ 59,000$ |

The Corporation's Cost of Goods Sold was $\$ 223,000$ prior to closing out its Manufacturing Overhead account. The Corporation closes out its Manufacturing Overhead account to Cost of Goods Sold. Which of the following statements is true?
A. Manufacturing overhead for the month was overapplied by $\$ 5,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 228,000$
B. Manufacturing overhead for the month was underapplied by $\$ 5,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 218,000$
C. Manufacturing overhead for the month was underapplied by $\$ 5,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 228,000$
D. Manufacturing overhead for the month was overapplied by $\$ 5,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 218,000$
11. Longstaff Inc. has provided the following data for the month of March. There were no beginning inventories; consequently, the direct materials, direct labor, and manufacturing overhead applied listed below are all for the current month.

|  | Work In Process | Finished Goods | Cost of Goods Sold | Total |
| :--- | ---: | ---: | ---: | ---: |
| Direct materials | $\$ 4,290$ | $\$ 12,480$ | $\$ 31,200$ | $\$ 47,970$ |
| Direct labor | 5,260 | 17,160 | 42,900 | 65,320 |
| Manufacturing overhead <br> applied | $\boxed{4,100}$ | $\underline{10,660}$ | $\underline{26,240}$ | $\boxed{41,000}$ |
| Total | $\$ 13,650$ | $\$ 40,300$ | $\$ 100,340$ | $\$ 154,290$ |

Manufacturing overhead for the month was overapplied by \$5,000.
The Corporation allocates any underapplied or overapplied manufacturing overhead among work in process, finished goods, and cost of goods sold at the end of the month on the basis of the manufacturing overhead applied during the month in those accounts.
The journal entry to record the allocation of any underapplied or overapplied manufacturing overhead for March would include the following:
A. debit to Work in Process of \$13,650
B. debit to Work in Process of $\$ 500$
C. credit to Work in Process of $\$ 13,650$
D. credit to Work in Process of \$500
12. The actual manufacturing overhead incurred at Fraze Corporation during November was $\$ 79,000$, while the manufacturing overhead applied to Work in Process was $\$ 65,000$. The Corporation's Cost of Goods Sold was $\$ 385,000$ prior to closing out its Manufacturing Overhead account. The Corporation closes out its Manufacturing Overhead account to Cost of Goods Sold. Which of the following statements is true?
A. Manufacturing overhead for the month was underapplied by $\$ 14,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 399,000$
B. Manufacturing overhead for the month was overapplied by $\$ 14,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 371,000$
C. Manufacturing overhead for the month was overapplied by $\$ 14,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is \$399,000
D. Manufacturing overhead for the month was underapplied by $\$ 14,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 371,000$
13. Caber Corporation applies manufacturing overhead on the basis of machine-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 60,600$. Actual manufacturing overhead for the year amounted to $\$ 59,000$ and actual machine-hours were 5,900. The company's predetermined overhead rate for the year was $\$ 10.10$ per machine-hour.

The predetermined overhead rate was based on how many estimated machine-hours?
A. 5,783
B. 6,000
C. 5,900
D. 5,842
14. Caber Corporation applies manufacturing overhead on the basis of machine-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 60,600$. Actual manufacturing overhead for the year amounted to $\$ 59,000$ and actual machine-hours were 5,900. The company's predetermined overhead rate for the year was $\$ 10.10$ per machine-hour.

The applied manufacturing overhead for the year was closest to:
A. $\$ 58,017$
B. \$59,590
C. $\$ 60,600$
D. $\$ 58,597$
15. Caber Corporation applies manufacturing overhead on the basis of machine-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 60,600$. Actual manufacturing overhead for the year amounted to $\$ 59,000$ and actual machine-hours were 5,900. The company's predetermined overhead rate for the year was $\$ 10.10$ per machine-hour.

The overhead for the year was:
A. $\$ 1,010$ underapplied
B. $\$ 590$ overapplied
C. $\$ 590$ underapplied
D. $\$ 1,010$ overapplied
76. Baker Corporation applies manufacturing overhead on the basis of direct labor-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 210,600$ and 6,000 estimated direct labor-hours. Actual manufacturing overhead for the year amounted to \$209,000 and actual direct labor-hours were5,980.

The predetermined overhead rate for the year was closest to:
A. $\$ 34.95$
B. $\$ 34.83$
C. $\$ 34.98$
D. \$35.10
11. Baker Corporation applies manufacturing overhead on the basis of direct labor-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 210,600$ and 6,000 estimated direct labor-hours. Actual manufacturing overhead for the year amounted to \$209,000 and actual direct labor-hours were5,980.

The applied manufacturing overhead for the year was closest to:
A. $\$ 208,283$
B. \$209,001
C. \$209,898
D. \$209,180
78. Baker Corporation applies manufacturing overhead on the basis of direct labor-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 210,600$ and 6,000 estimated direct labor-hours. Actual manufacturing overhead for the year amounted to \$209,000 and actual direct labor-hours were 5,980.

The overhead for the year was:
A. $\$ 702$ underapplied
B. $\$ 898$ underapplied
C. $\$ 702$ overapplied
D. $\$ 898$ overapplied
19. Acton Corporation, which applies manufacturing overhead on the basis of machine-hours, has provided the following data for its most recent year ofoperations.

| Estimated manufacturing overhead | $\$ 139,080$ |
| :--- | ---: |
| Estimated machine-hours | 3,800 |
| Actual manufacturing overhead | $\$ 137,000$ |
| Actual machine-hours | 3,780 |

The estimates of the manufacturing overhead and of machine-hours were made at the beginning of the year for the purpose of computing the company's predetermined overhead rate for the year.

The predetermined overhead rate is closest to:
A. $\$ 36.60$
B. $\$ 36.41$
C. $\$ 36.24$
D. $\$ 36.05$
80. Acton Corporation, which applies manufacturing overhead on the basis of machine-hours, has provided the following data for its most recent year of operations.

| Estimated manufacturing overhead | $\$ 139,080$ |
| :--- | ---: |
| Estimated machine-hours | 3,800 |
| Actual manufacturing overhead | $\$ 137,000$ |
| Actual machine-hours | 3,780 |

The estimates of the manufacturing overhead and of machine-hours were made at the beginning of the year for the purpose of computing the company's predetermined overhead rate for the year.

The applied manufacturing overhead for the year is closest to:
A. \$136,269
B. $\$ 138,348$
C. $\$ 136,987$
D. $\$ 137,630$
81. Acton Corporation, which applies manufacturing overhead on the basis of machine-hours, has provided the following data for its most recent year of operations.

| Estimated manufacturing overhead | $\$ 139,080$ |
| :--- | ---: |
| Estimated machine-hours | 3,800 |
| Actual manufacturing overhead | $\$ 137,000$ |
| Actual machine-hours | 3,780 |

The estimates of the manufacturing overhead and of machine-hours were made at the beginning of the year for the purpose of computing the company's predetermined overhead rate for the year.

The overhead for the year was:
A. $\$ 732$ underapplied
B. $\$ 1,348$ underapplied
C. \$732 overapplied
D. $\$ 1,348$ overapplied
82. Meyers Corporation had the following inventory balances at the beginning and end of November:

|  | November 1 | November 30 |
| :--- | ---: | ---: |
| Raw Materials | $\$ 17,000$ | $\$ 20,000$ |
| Finished Goods | $\$ 50,000$ | $\$ 44,000$ |
| Work in Process | $\$ 9,000$ | $\$ 11,000$ |

During November, $\$ 39,000$ in raw materials (all direct materials) were drawn from inventory and used in production. The company's predetermined overhead rate was $\$ 8$ per direct labor-hour, and it paid its direct labor workers $\$ 10$ per hour. A total of 300 hours of direct labor time had been expended on the jobs in the beginning Work in Process inventory account. The ending Work in Process inventory account contained $\$ 4,700$ of direct materials cost. The Corporation incurred $\$ 28,000$ of actual manufacturing overhead cost during the month and applied $\$ 26,400$ in manufacturing overhead cost.

The raw materials purchased during November totaled:
A. $\$ 42,000$
B. $\$ 45,000$
C. $\$ 36,000$
D. $\$ 39,000$
83. Meyers Corporation had the following inventory balances at the beginning and end of November:

|  | November 1 | November 30 |
| :--- | ---: | ---: |
| Raw Materials | $\$ 17,000$ | $\$ 20,000$ |
| Finished Goods | $\$ 50,000$ | $\$ 44,000$ |
| Work in Process | $\$ 9,000$ | $\$ 11,000$ |

During November, \$39,000 in raw materials (all direct materials) were drawn from inventory and used in production. The company's predetermined overhead rate was $\$ 8$ per direct labor-hour, and it paid its direct labor workers $\$ 10$ per hour. A total of 300 hours of direct labor time had been expended on the jobs in the beginning Work in Process inventory account. The ending Work in Process inventory account contained $\$ 4,700$ of direct materials cost. The Corporation incurred $\$ 28,000$ of actual manufacturing overhead cost during the month and applied $\$ 26,400$ in manufacturing overhead cost.

The direct materials cost in the November 1 Work in Process inventory account totaled:
A. \$6,600
B. $\$ 6,000$
C. \$3,600
D. \$3,000
84. Meyers Corporation had the following inventory balances at the beginning and end of November:

|  | November 1 | November 30 |
| :--- | ---: | ---: |
| Raw Materials | $\$ 17,000$ | $\$ 20,000$ |
| Finished Goods | $\$ 50,000$ | $\$ 44,000$ |
| Work in Process | $\$ 9,000$ | $\$ 11,000$ |

During November, \$39,000 in raw materials (all direct materials) were drawn from inventory and used in production. The company's predetermined overhead rate was $\$ 8$ per direct labor-hour, and it paid its direct labor workers $\$ 10$ per hour. A total of 300 hours of direct labor time had been expended on the jobs in the beginning Work in Process inventory account. The ending Work in Process inventory account contained $\$ 4,700$ of direct materials cost. The Corporation incurred $\$ 28,000$ of actual manufacturing overhead cost during the month and applied $\$ 26,400$ in manufacturing overhead cost.

The actual direct labor-hours worked during November totaled:
A. 2,800 hours
B. 3,300 hours
C. 3,500 hours
D. 3,600 hours
85. Meyers Corporation had the following inventory balances at the beginning and end of November:

|  | November 1 | November 30 |
| :--- | ---: | ---: |
| Raw Materials | $\$ 17,000$ | $\$ 20,000$ |
| Finished Goods | $\$ 50,000$ | $\$ 44,000$ |
| Work in Process | $\$ 9,000$ | $\$ 11,000$ |

During November, \$39,000 in raw materials (all direct materials) were drawn from inventory and used in production. The company's predetermined overhead rate was $\$ 8$ per direct labor-hour, and it paid its direct labor workers $\$ 10$ per hour. A total of 300 hours of direct labor time had been expended on the jobs in the beginning Work in Process inventory account. The ending Work in Process inventory account contained $\$ 4,700$ of direct materials cost. The Corporation incurred $\$ 28,000$ of actual manufacturing overhead cost during the month and applied $\$ 26,400$ in manufacturing overhead cost.

The amount of direct labor cost in the November 30 Work in Process inventory was:
A. $\$ 2,800$
B. $\$ 3,300$
C. $\$ 3,500$
D. \$6,300
86. The direct labor rate for Brent Corporation is $\$ 9.00$ per hour, and manufacturing overhead is applied to products using a predetermined overhead rate of $\$ 6.00$ per direct labor-hour. During May, the company purchased $\$ 60,000$ in raw materials (all direct materials) and worked 3,200 direct labor-hours. The Raw Materials inventory (all direct materials) decreased by $\$ 3,000$ between the beginning and end of May. The Work in Process inventory on May 1 consisted of one job which had been charged with $\$ 4,000$ in direct materials and on which 300 hours of direct labor time had been worked. There was no Work in Process inventory on May31.

The balance in the Work in Process inventory account on May 1 was:
A. \$0
B. $\$ 6,700$
C. $\$ 4,500$
D. $\$ 8,500$
87. The direct labor rate for Brent Corporation is $\$ 9.00$ per hour, and manufacturing overhead is applied to products using a predetermined overhead rate of $\$ 6.00$ per direct labor-hour. During May, the company purchased $\$ 60,000$ in raw materials (all direct materials) and worked 3,200 direct labor-hours. The Raw Materials inventory (all direct materials) decreased by $\$ 3,000$ between the beginning and end of May. The Work in Process inventory on May 1 consisted of one job which had been charged with $\$ 4,000$ in direct materials and on which 300 hours of direct labor time had been worked. There was no Work in Process inventory on May31.

The debit to Work in Process for the cost of direct materials used during May was:
A. $\$ 63,000$
B. $\$ 61,000$
C. $\$ 57,000$
D. $\$ 67,000$
88. The direct labor rate for Brent Corporation is $\$ 9.00$ per hour, and manufacturing overhead is applied to products using a predetermined overhead rate of $\$ 6.00$ per direct labor-hour. During May, the company purchased $\$ 60,000$ in raw materials (all direct materials) and worked 3,200 direct labor-hours. The Raw Materials inventory (all direct materials) decreased by $\$ 3,000$ between the beginning and end of May. The Work in Process inventory on May 1 consisted of one job which had been charged with $\$ 4,000$ in direct materials and on which 300 hours of direct labor time had been worked. There was no Work in Process inventory on May 31.

The debit to Work in Process for direct labor cost during May was:
A. $\$ 21,000$
B. $\$ 26,100$
C. $\$ 28,800$
D. $\$ 31,500$
89. The direct labor rate for Brent Corporation is $\$ 9.00$ per hour, and manufacturing overhead is applied to products using a predetermined overhead rate of $\$ 6.00$ per direct labor-hour. During May, the company purchased $\$ 60,000$ in raw materials (all direct materials) and worked 3,200 direct labor-hours. The Raw Materials inventory (all direct materials) decreased by $\$ 3,000$ between the beginning and end of May. The Work in Process inventory on May 1 consisted of one job which had been charged with $\$ 4,000$ in direct materials and on which 300 hours of direct labor time had been worked. There was no Work in Process inventory on May31.

If overhead was underapplied by $\$ 2,500$ during May, the actual overhead cost for the month must have been:
A. $\$ 16,700$
B. $\$ 21,700$
C. $\$ 18,500$
D. $\$ 23,500$
90. Killian Corporation began operations on January 1. The predetermined overhead rate was set at $\$ 6.00$ per direct labor-hour. Debits to Work in Process for the year totaled $\$ 550,000$. Credits to Work in Process totaled $\$ 480,000$. Analysis of the Corporation's records indicate that direct labor cost totaled $\$ 250,000$ for the year, which represents 20,000 direct labor-hours.

The direct materials used in production during the year totaled:
A. \$180,000
B. $\$ 240,000$
C. \$130,000
D. \$120,000
9. Killian Corporation began operations on January 1. The predetermined overhead rate was set at $\$ 6.00$ per direct labor-hour. Debits to Work in Process for the year totaled $\$ 550,000$. Credits to Work in Process totaled $\$ 480,000$. Analysis of the Corporation's records indicate that direct labor cost totaled $\$ 250,000$ for the year, which represents 20,000 direct labor-hours.

If the actual manufacturing overhead cost for the year totaled $\$ 145,000$, then overhead was:
A. overapplied by $\$ 25,000$
B. overapplied by $\$ 10,000$
C. underapplied by $\$ 25,000$
D. underapplied by $\$ 10,000$
92. Killian Corporation began operations on January 1. The predetermined overhead rate was set at $\$ 6.00$ per direct labor-hour. Debits to Work in Process for the year totaled $\$ 550,000$. Credits to Work in Process totaled $\$ 480,000$. Analysis of the Corporation's records indicate that direct labor cost totaled $\$ 250,000$ for the year, which represents 20,000 direct labor-hours.

The Corporation's ending work in process inventory consisted of one job, Job 42. The job had been charged with $\$ 28,000$ of direct labor cost, which consisted of 2,000 actual labor-hours. The direct materials cost in Job 42 totaled:
A. $\$ 33,000$
B. $\$ 42,000$
C. $\$ 17,000$
D. $\$ 30,000$
4. On March 1, Metevier Corporation had $\$ 37,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 62,000$ of raw materials. During March, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$.

The journal entry to record the purchase of raw materials would include a:
A. credit to Raw Materials of $\$ 62,000$
B. credit to Raw Materials of \$99,000
C. debit to Raw Materials of \$99,000
D. debit to Raw Materials of $\$ 62,000$
4. On March 1, Metevier Corporation had $\$ 37,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 62,000$ of raw materials. During March, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$.

The journal entry to record the requisition from the storeroom would include a:
A. debit to Work in Process of $\$ 69,000$
B. debit to Work in Process of $\$ 63,000$
C. debit to Raw Materials of $\$ 69,000$
D. credit to Manufacturing Overhead of $\$ 6,000$

1. Chelm Music Corporation manufactures violins, violas, cellos, and fiddles and uses a job-order costing system.

What account should Chelm debit when the workers who carve the wood for the instruments have earned their pay?
A. Direct Labor
B. Work in Process
C. Manufacturing Overhead
D. Salaries and Wages Receivable
E. Salaries and Wages Expense
4. Chelm Music Corporation manufactures violins, violas, cellos, and fiddles and uses a job-order costing system.

What account should Chelm debit when the production manager has earned her salary?
A. Direct Labor
B. Work in Process
C. Manufacturing Overhead
D. Salaries and Wages Receivable
E. Salaries and Wages Expense
9. Chelm Music Corporation manufactures violins, violas, cellos, and fiddles and uses a job-order costing system.

What account should Chelm debit when the president of the company has earned her salary?
A. Direct Labor
B. Work in Process
C. Manufacturing Overhead
D. Salaries and Wages Receivable
E. Salaries and Wages Expense
4. Chelm Music Corporation manufactures violins, violas, cellos, and fiddles and uses a job-order costing system.

What is one of the accounts that Chelm should credit when goods are sold?
A. Finished Goods
B. Work in Process
C. Cost of Goods Sold
D. Manufacturing Overhead
E. Cost of Goods Manufactured

ข. During February, Irving Corporation incurred $\$ 65,000$ of actual Manufacturing Overhead costs. During the same period, the Manufacturing Overhead applied to Work in Process was $\$ 60,000$.

The journal entry to record the incurrence of the actual Manufacturing Overhead costs would include a:
A. debit to Manufacturing Overhead of $\$ 65,000$
B. credit to Manufacturing Overhead of $\$ 65,000$
C. credit to Work in Process of $\$ 60,000$
D. debit to Work in Process of $\$ 60,000$
11. During February, Irving Corporation incurred $\$ 65,000$ of actual Manufacturing Overhead costs. During the same period, the Manufacturing Overhead applied to Work in Process was $\$ 60,000$.

The journal entry to record the application of Manufacturing Overhead to Work in Process would include a:
A. debit to Work in Process of $\$ 65,000$
B. credit to Work in Process of $\$ 65,000$
C. credit to Manufacturing Overhead of $\$ 60,000$
D. debit to Manufacturing Overhead of $\$ 60,000$
11. On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The debits entered in the Raw Materials account during the month of August total:
A. $\$ 91,000$
B. $\$ 69,000$
C. $\$ 35,000$
D. $\$ 56,000$
10. On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled \$6,000. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The credits to the Raw Materials account for the month of August total:
A. $\$ 35,000$
B. $\$ 91,000$
C. $\$ 56,000$
D. $\$ 69,000$
103. On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The debits to the Work in Process account as a consequence of the raw materials transactions in August total:
A. $\$ 56,000$
B. \$0
C. \$63,000
D. $\$ 69,000$
10. On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The credits to the Work in Process account as a consequence of the raw materials transactions in August total:
A. \$56,000
B. \$63,000
C. \$0
D. $\$ 69,000$
105. On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The debits to the Manufacturing Overhead account as a consequence of the raw materials transactions in August total:
A. \$6,000
B. \$69,000
C. \$0
D. $\$ 63,000$
10. On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The credits to the Manufacturing Overhead account as a consequence of the raw materials transactions in August total:
A. \$0
B. \$63,000
C. \$69,000
D. $\$ 6,000$
107. Dillon Corporation applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any under or overapplied manufacturing overhead cost is closed out to Cost of Goods Sold at the end of the month. During May, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :--- | ---: |
| Purchased during the month | $\$ 38,000$ |
| Used in production | $\$ 35,000$ |
| Labor: | 3,150 |
| Direct labor-hours worked during the <br> month | $\$ 30,000$ |
| Direct labor cost incurred | $\$ 24,500$ |
| Manufacturing overhead cost incurred <br> (total) | Inventories: <br> Raw materials (all direct), May 31 |
| Work in process, May 1 | $\$ 9,000$ |
| Work in process, May 31 | $\$ 12,000 *$ |
| *Contains \$4,400 in direct labor cost. |  |

The balance on May 1 in the Raw Materials inventory account was:
A. $\$ 11,000$
B. \$5,000
C. $\$ 7,000$
D. \$9,000
108. Dillon Corporation applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any under or overapplied manufacturing overhead cost is closed out to Cost of Goods Sold at the end of the month. During May, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :---: | :---: |
| Purchased during the month | \$38,000 |
| Used in production | \$35,000 |
| Labor: |  |
| Direct labor-hours worked during the month | 3,150 |
| Direct labor cost incurred | \$30,000 |
| Manufacturing overhead cost incurred (total) | \$24,500 |
| Inventories: |  |
| Raw materials (all direct), May 31 | \$8,00 |
| Work in process, May 1 | \$9,000 |
| Work in process, May 31 | \$12,000 |
| *Contains \$4,400 in direct labor cost. |  |

The amount of direct materials cost in the May 31 Work in Process inventory account was:
A. $\$ 7,600$
B. $\$ 2,000$
C. \$6,300
D. $\$ 4,300$
10. Dillon Corporation applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any under or overapplied manufacturing overhead cost is closed out to Cost of Goods Sold at the end of the month. During May, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :---: | :---: |
| Purchased during the month | \$38,000 |
| Used in production | \$35,000 |
| Labor: |  |
| Direct labor-hours worked during the month | 3,15 |
| Direct labor cost incurred | \$30,000 |
| Manufacturing overhead cost incurred (total) | \$24,500 |
| Inventories: |  |
| Raw materials (all direct), May 31 | \$8,000 |
| Work in process, May 1 | \$9,000 |
| Work in process, May 31 | \$12,000 |
| *Contains \$4,400 in direct labor cost. |  |

The entry to dispose of the under or overapplied manufacturing overhead cost for the month would include:
A. a debit of $\$ 2,000$ to the Manufacturing Overheadaccount.
B. a credit of $\$ 2,500$ to the Manufacturing Overheadaccount.
C. a debit of $\$ 2,000$ to Cost of Goods Sold.
D. a credit of $\$ 2,500$ to Cost of Goods Sold.
10. Dillon Corporation applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any under or overapplied manufacturing overhead cost is closed out to Cost of Goods Sold at the end of the month. During May, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :--- | ---: |
| Purchased during the month | $\$ 38,000$ |
| Used in production | $\$ 35,000$ |
| Labor: |  |
| Direct labor-hours worked during the <br> month | $\$ 30,000$ |
| Direct labor cost incurred | $\$ 24,500$ |
| Manufacturing overhead cost incurred <br> (total) |  |
| Inventories: | $\$ 8,000$ |
| Raw materials (all direct), May 31 | $\$ 9,000$ |
| Work in process, May 1 | $\$ 12,000 *$ |
| Work in process, May 31 |  |
| *Contains \$4,400 in direct labor cost. |  |

The Cost of Goods Manufactured for May was:
A. $\$ 84,500$
B. $\$ 95,000$
C. $\$ 75,500$
D. $\$ 81,500$
11. Echo Corporation uses a job-order costing system and applies overhead to jobs using a predetermined overhead rate. During the year the company's Finished Goods inventory account was debited for $\$ 360,000$ and credited for $\$ 338,800$. The ending balance in the Finished Goods inventory account was $\$ 36,600$. At the end of the year, manufacturing overhead was overapplied by $\$ 15,900$.

The balance in the Finished Goods inventory account at the beginning of the year was:
A. $\$ 15,900$
B. $\$ 15,400$
C. $\$ 21,200$
D. $\$ 36,600$
12. Echo Corporation uses a job-order costing system and applies overhead to jobs using a predetermined overhead rate. During the year the company's Finished Goods inventory account was debited for $\$ 360,000$ and credited for $\$ 338,800$. The ending balance in the Finished Goods inventory account was $\$ 36,600$. At the end of the year, manufacturing overhead was overapplied by $\$ 15,900$.

If the applied manufacturing overhead was $\$ 169,300$, the actual manufacturing overhead cost for the year was:
A. $\$ 168,800$
B. \$153,400
C. \$190,000
D. $\$ 185,200$
13. The following partially completed T-accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | ---: |
| Beg Bal | 1,900 | 22,900 |  |
|  | 26,300 |  |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | ---: |
|  | 2,600 |  | 6,800 |
|  | 3,000 |  |  |
|  | 1,900 |  |  |


| Wages \& Salaries Payable |  |  |  |
| :---: | ---: | :---: | ---: |
|  | 12,300 | Beg Bal | 1,400 |
|  |  |  | 11,000 |


| Cost of Goods Sold |  |  |
| :--- | :--- | :--- | :--- |
| 22,900 |  |  |

The Cost of Goods Manufactured was:
A. $\$ 22,900$
B. $\$ 26,300$
C. $\$ 6,400$
D. $\$ 49,200$
14. The following partially completed T-accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :--- | :--- | :--- |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | ---: |
| Beg Bal | 1,900 | 22,900 |  |
|  | 26,300 |  |  |


| Manufacturing Overhead |  |  |
| :--- | ---: | ---: |
|  | 2,600 | 6,800 |
|  | 3,000 |  |
|  | 1,900 |  |


| Wages \& Salaries Payable |  |  |  |
| :--- | :--- | :--- | :--- |
|  | 12,300 | Beg Bal | 1,400 |
|  |  |  | 11,000 |



The direct labor cost was:
A. $\$ 8,000$
B. \$12,300
C. $\$ 12,600$
D. \$11,000
15. The following partially completed T-accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :--- | :--- | :--- |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | :---: |
| Beg Bal | 1,900 | 22,900 |  |
|  | 26,300 |  |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | :---: |
|  | 2,600 |  |  |
|  | 3,000 |  |  |
|  | 1,900 |  |  |

Wages \& Salaries Payable

|  | 12,300 | Beg Bal | 1,400 |
| :--- | :--- | :--- | ---: |
|  |  |  | 11,000 |


| Cost of Goods Sold |  |
| ---: | :--- |
| 22,900 |  |

The direct materials cost was:
A. \$8,000
B. $\$ 10,000$
C. \$7,400
D. \$4,600
16. The following partially completed T-accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :--- | :--- | :--- |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | :---: |
| Beg Bal | 1,900 | 22,900 |  |
|  | 26,300 |  |  |

The manufacturing overhead applied was:
A. $\$ 1,900$
B. $\$ 6,800$
C. $\$ 12,900$
D. \$3,000
117. The following partially completed T-accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :--- | :--- | :--- |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | ---: |
| Beg Bal | 1,900 | 22,900 |  |
|  | 26,300 |  |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | ---: |
|  | 2,600 |  | 6,800 |
|  | 3,000 |  |  |
|  | 1,900 |  |  |


| Wages \& Salaries Payable |  |  |  |
| :---: | :---: | :---: | ---: |
|  | 12,300 | Beg Bal | 1,400 |
|  |  |  | 11,000 |


| Cost of Goods Sold |  |  |
| ---: | ---: | :--- |
| 22,900 |  |  |

The manufacturing overhead was:
A. \$1,900 underapplied
B. $\$ 700$ underapplied
C. \$400 overapplied
D. \$3,200 overapplied
118. Dapper Corporation had only one job in process on May 1. The job had been charged with \$3,400 of direct materials, $\$ 4,640$ of direct labor, and $\$ 9,200$ of manufacturing overhead cost. The company assigns overhead cost to jobs using the predetermined overhead rate of $\$ 23.00$ per direct labor-hour.

During May, the following activity was recorded:

| Raw materials (all direct materials): |  |
| :---: | ---: |
| Beginning balance | $\$ 8,500$ |
| Purchased during the month | $\$ 42,000$ |
| Used in production | $\$ 48,500$ |
| Labor: | 2,200 |
| Direct labor-hours worked during the <br> month | $\$ 25,520$ |
| Direct labor cost incurred | $\$ 52,800$ |
| Actual manufacturing overhead costs <br> incurred | $\$ 32,190$ |
| Inventories: |  |
| Raw materials, May 30 |  |
| Work in process, May 30 |  |

Work in process inventory on May 30 contains $\$ 7,540$ of direct labor cost. Raw materials consist solely of items that are classified as direct materials.

The balance in the raw materials inventory account on May 30 was:
A. $\$ 33,500$
B. $\$ 2,000$
C. $\$ 40,000$
D. $\$ 6,500$
19. Dapper Corporation had only one job in process on May 1. The job had been charged with \$3,400 of direct materials, $\$ 4,640$ of direct labor, and $\$ 9,200$ of manufacturing overhead cost. The company assigns overhead cost to jobs using the predetermined overhead rate of $\$ 23.00$ per direct labor-hour.

During May, the following activity was recorded:

| Raw materials (all direct materials): |  |
| :---: | ---: |
| Beginning balance | $\$ 8,500$ |
| Purchased during the month | $\$ 42,000$ |
| Used in production | 2,200 |
| Labor: | $\$ 25,520$ |
| Direct labor-hours worked during the <br> month | $\$ 52,800$ |
| Direct labor cost incurred |  |
| Actual manufacturing overhead costs <br> incurred | $\$ 32,190$ |
| Inventories: |  |
| Raw materials, May 30 |  |
| Work in process, May 30 |  |

Work in process inventory on May 30 contains $\$ 7,540$ of direct labor cost. Raw materials consist solely of items that are classified as direct materials.

The cost of goods manufactured for May was:
A. \$109,670
B. $\$ 124,620$
C. \$143,300
D. $\$ 126,820$
12. Dapper Corporation had only one job in process on May 1. The job had been charged with \$3,400 of direct materials, $\$ 4,640$ of direct labor, and $\$ 9,200$ of manufacturing overhead cost. The company assigns overhead cost to jobs using the predetermined overhead rate of $\$ 23.00$ per direct labor-hour.

During May, the following activity was recorded:

| Raw materials (all direct materials): |  |
| :---: | ---: |
| Beginning balance | $\$ 8,500$ |
| Purchased during the month | $\$ 42,000$ |
| Used in production | 2,200 |
| Labor: | $\$ 25,520$ |
| Direct labor-hours worked during the <br> month | $\$ 52,800$ |
| Direct labor cost incurred |  |
| Actual manufacturing overhead costs <br> incurred | $\$ 32,190$ |
| Inventories: |  |
| Raw materials, May 30 |  |
| Work in process, May 30 |  |

Work in process inventory on May 30 contains $\$ 7,540$ of direct labor cost. Raw materials consist solely of items that are classified as direct materials.

The entry to dispose of the underapplied or overapplied manufacturing overhead cost for the month would include a:
A. debit of $\$ 2,200$ to Manufacturing Overhead.
B. debit of $\$ 14,950$ to Manufacturing Overhead.
C. credit of $\$ 14,950$ to Manufacturing Overhead.
D. credit of $\$ 2,200$ to Manufacturing Overhead.
121. Messana Corporation reported the following data for the month of August:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Raw materials | $\$ 36,000$ | $\$ 24,000$ |
| Work in process | $\$ 23,000$ | $\$ 17,000$ |
| Finished goods | $\$ 37,000$ | $\$ 55,000$ |
|  |  |  |
| Additional information: | $\$ 69,000$ |  |
| Raw materials purchases | $\$ 94,000$ |  |
| Direct labor cost | $\$ 54,000$ |  |
| Manufacturing overhead cost incurred | $\$ 8,000$ |  |
| Indirect materials included in manufacturing overhead cost incurred | $\$ 56,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

The direct materials cost for August is:
A. $\$ 73,000$
B. \$69,000
C. $\$ 81,000$
D. $\$ 57,000$
122. Messana Corporation reported the following data for the month of August:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Raw materials | $\$ 36,000$ | $\$ 24,000$ |
| Work in process | $\$ 23,000$ | $\$ 17,000$ |
| Finished goods | $\$ 37,000$ | $\$ 55,000$ |
|  |  |  |
| Additional information: | $\$ 69,000$ |  |
| Raw materials purchases | $\$ 94,000$ |  |
| Direct labor cost | $\$ 54,000$ |  |
| Manufacturing overhead cost incurred | $\$ 8,000$ |  |
| Indirect materials included in manufacturing overhead cost |  |  |
| incurred | $\$ 56,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

The cost of goods manufactured for August is:
A. \$227,000
B. \$229,000
C. \$219,000
D. $\$ 217,000$
123. Messana Corporation reported the following data for the month of August:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Raw materials | $\$ 36,000$ | $\$ 24,000$ |
| Work in process | $\$ 23,000$ | $\$ 17,000$ |
| Finished goods | $\$ 37,000$ | $\$ 55,000$ |
|  |  |  |
| Additional information: | $\$ 69,000$ |  |
| Raw materials purchases | $\$ 94,000$ |  |
| Direct labor cost | $\$ 54,000$ |  |
| Manufacturing overhead cost incurred | $\$ 8,000$ |  |
| Indirect materials included in manufacturing overhead cost | $\$ 56,000$ |  |
| incurred |  |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

The adjusted cost of goods sold that appears on the income statement for August is:
A. \$229,000
B. $\$ 211,000$
C. $\$ 209,000$
D. $\$ 247,000$
124. Tondre Inc. has provided the following data for the month of July:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Work in process | $\$ 23,000$ | $\$ 21,000$ |
| Finished goods | $\$ 26,000$ | $\$ 35,000$ |
|  |  |  |
| Additional information: | $\$ 56,000$ |  |
| Direct materials | $\$ 91,000$ |  |
| Direct labor cost | $\$ 58,000$ |  |
| Manufacturing overhead cost incurred | $\$ 61,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

The cost of goods manufactured for July is:
A. \$210,000
B. \$205,000
C. \$208,000
D. \$207,000
125. Tondre Inc. has provided the following data for the month of July:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Work in process | $\$ 23,000$ | $\$ 21,000$ |
| Finished goods | $\$ 26,000$ | $\$ 35,000$ |
|  |  |  |
| Additional information: | $\$ 56,000$ |  |
| Direct materials | $\$ 91,000$ |  |
| Direct labor cost | $\$ 58,000$ |  |
| Manufacturing overhead cost incurred | $\$ 61,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

The adjusted cost of goods sold that appears on the income statement for July is:
A. \$201,000
B. \$198,000
C. \$219,000
D. $\$ 210,000$

## Essay Questions

16. Christofferse Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. Data for the most recently completed year appearbelow:

| Estimates made at the beginning of the year: |  |  |
| :--- | ---: | ---: |
| Estimated machine-hours | 38,000 |  |
| Estimated variable manufacturing overhead | $\$ 3.33$ | per machine-hour |
| Estimated total fixed manufacturing overhead | $\$ 548,720$ |  |
| Actual machine-hours for the year | 33,700 |  |

Required:
Compute the company's predetermined overhead rate for the recently completed year.
12. Cacioppo Corporation bases its predetermined overhead rate on the estimated labor-hours for the upcoming year. At the beginning of the most recently completed year, the company estimated the labor-hours for the upcoming year at 66,000 labor-hours. The estimated variable manufacturing overhead was $\$ 7.45$ per labor-hour and the estimated total fixed manufacturing overhead was $\$ 1,760,220$. The actual labor-hours for the year turned out to be 63,800 labor-hours.

Required:
Compute the company's predetermined overhead rate for the recently completed year.
11. Sigel Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. At the beginning of the most recently completed year, the company estimated the machine-hours for the upcoming year at 52,000 machine-hours. The estimated variable manufacturing overhead was $\$ 3.40$ per machine-hour and the estimated total fixed manufacturing overhead was $\$ 624,520$.

Required:
Compute the company's predetermined overhead rate.
14. Huckeby Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. Data for the upcoming year appear below:

| Estimated machine-hours | 24,000 |  |
| :--- | ---: | :--- |
| Estimated variable manufacturing overhead | $\$ 3.89$ | per machine-hour |
| Estimated total fixed manufacturing overhead | $\$ 535,200$ |  |

Required:
Compute the company's predetermined overhead rate.
10. Quark Spy Equipment manufactures espionage equipment. Quark uses a job-order costing system and applies overhead to jobs on the basis of direct labor-hours. For the current year, Quark estimated that it would work 100,000 direct labor-hours and incur \$20,000,000 of manufacturing overhead cost. The following summarized information relates to January of the current year. The raw materials purchased include both direct and indirectmaterials.

| Raw materials purchased on account | $\$ 1,412,000$ |
| :--- | ---: |
| Direct materials requisitioned into production | $\$ 1,299,500$ |
| Indirect materials requisitioned into production | $\$ 98,000$ |
| Direct labor cost (7,900 hours @ \$40 per hour) | $\$ 316,000$ |
| Indirect labor cost (10,200 hours @ \$16 per hour) | $\$ 163,200$ |
| Depreciation on the factory building | $\$ 190,500$ |
| Depreciation on the factory equipment | $\$ 890,700$ |
| Utilities for the factory | $\$ 79,600$ |
| Cost of jobs finished | $\$ 2,494,200$ |
| Cost of jobs sold | $\$ 2,380,000$ |
| Sales (all on account) | $\$ 3,570,000$ |

Required:
Prepare journal entries to record Quark's transactions for the month of January. Do not close out the manufacturing overhead account.
81. Allenton Company is a manufacturing firm that uses job-order costing. At the beginning of the year, the company's inventory balances were as follows:

| Raw materials | $\$ 26,000$ |
| :--- | ---: |
| Work in process | $\$ 47,000$ |
| Finished goods | $\$ 133,000$ |

The company applies overhead to jobs using a predetermined overhead rate based on machinehours. At the beginning of the year, the company estimated that it would work 31,000 machinehours and incur $\$ 248,000$ in manufacturing overhead cost. The following transactions were recorded for the year:
a. Raw materials were purchased, $\$ 411,000$.
b. Raw materials were requisitioned for use in production, $\$ 409,000$ ( $\$ 388,000$ direct and $\$ 21,000$ indirect).
c. The following employee costs were incurred: direct labor, \$145,000; indirect labor, \$61,000; and administrative salaries, \$190,000.
d. Selling costs, \$148,000.
e. Factory utility costs, $\$ 12,000$.
f. Depreciation for the year was $\$ 121,000$ of which $\$ 114,000$ is related to factory operations and $\$ 7,000$ is related to selling, general, and administrative activities.
g. Manufacturing overhead was applied to jobs. The actual level of activity for the year was 29,000 machine-hours.
h. The cost of goods manufactured for the year was $\$ 783,000$.
i. Sales for the year totaled $\$ 1,107,000$ and the costs on the job cost sheets of the goods that were sold totaled $\$ 768,000$.
j. The balance in the Manufacturing Overhead account was closed out to Cost of Goods Sold.

Required:
Prepare the appropriate journal entry for each of the items above (a. through j.). You can assume that all transactions with employees, customers, and suppliers were conducted in cash.
12. Bakerston Company is a manufacturing firm that uses job-order costing. The company's inventory balances were as follows at the beginning and end of theyear:

|  | Beginning Balance | Ending Balance |
| :--- | ---: | ---: |
| Raw materials | $\$ 14,000$ | $\$ 22,000$ |
| Work in process | $\$ 27,000$ | $\$ 9,000$ |
| Finished goods | $\$ 62,000$ | $\$ 77,000$ |

The company applies overhead to jobs using a predetermined overhead rate based on machinehours. At the beginning of the year, the company estimated that it would work 33,000 machinehours and incur $\$ 231,000$ in manufacturing overhead cost. The following transactions were recorded for the year:

- Raw materials were purchased, $\$ 315,000$.
- Raw materials were requisitioned for use in production, $\$ 307,000$ ( $\$ 281,000$ direct and $\$ 26,000$ indirect).
- The following employee costs were incurred: direct labor, \$377,000; indirect labor, \$96,000; and administrative salaries, \$172,000.
- Selling costs, \$147,000.
- Factory utility costs, \$10,000.
- Depreciation for the year was $\$ 127,000$ of which $\$ 120,000$ is related to factory operations and $\$ 7,000$ is related to selling, general, and administrative activities.
- Manufacturing overhead was applied to jobs. The actual level of activity for the year was 34,000 machine-hours.
- Sales for the year totaled $\$ 1,253,000$.

Required:
a. Prepare a schedule of cost of goods manufactured.
b. Was the overhead underapplied or overapplied? By how much?
c. Prepare an income statement for the year. The company closes any underapplied or overapplied overhead to Cost of Goods Sold.
13. Parker Company uses a job-order costing system and applies manufacturing overhead to jobs using a predetermined overhead rate based on direct labor-hours. Last year manufacturing overhead and direct labor-hours were estimated at $\$ 50,000$ and 20,000 hours, respectively, for the year. In June, Job \#461 was completed. Materials costs on the job totaled \$4,000 and labor costs totaled $\$ 1,500$ at $\$ 5$ per hour. At the end of the year, it was determined that the company worked 24,000 direct labor-hours for the year and incurred \$54,000 in actual manufacturing overhead costs.

Required:
a. Job \#461 contained 100 units. Determine the unit product cost that would appear on the job cost sheet.
b. Determine the underapplied or overapplied overhead for the year.
84. Hacken Company has a job-order costing system. The company applies manufacturing overhead to jobs using a predetermined overhead rate based on direct labor cost. The information below has been taken from the cost records of Hacken Company for the pastyear:

| Direct materials used in production | $\$ 1,250$ |
| :--- | ---: |
| Total manufacturing costs charged to production during the year (includes direct <br> materials, direct labor, and applied manufacturing overhead) |  |
| Manufacturing overhead applied | $\$ 6,050$ |
| Selling and administrative expenses | $\$ 2,800$ |
| Inventories: | $\$ 1,000$ |
| Direct materials, January 1 | $\$ 130$ |
| Direct materials, December 31 | $\$ 80$ |
| Work in process, January 1 | $\$ 250$ |
| Work in process, December 31 | $\$ 400$ |
| Finished goods, January 1 | $\$ 300$ |
| Finished goods, December 31 | $\$ 200$ |

## Required:

a. Compute the cost of direct materials purchased during the year.
b. Compute the predetermined overhead rate that was used during the pastyear.
c. Compute the Cost of Goods Manufactured for the pastyear.
d. Compute the unadjusted Cost of Goods Sold for the pastyear.
135. Job 231 was recently completed. The following data have been recorded on its job cost sheet:

| Direct materials | $\$ 52,260$ |  |
| :--- | ---: | :--- |
| Direct labor-hours | 1,326 | labor-hours |
| Direct labor wage rate | $\$ 10$ | per labor-hour |
| Machine-hours | 819 | machine-hours |
| Number of units completed | 3,900 | units |

The company applies manufacturing overhead on the basis of machine-hours. The predetermined overhead rate is $\$ 11$ per machine-hour.

Required:
Compute the unit product cost that would appear on the job cost sheet for this job.
136. Job 231 was recently completed. The following data have been recorded on its job cost sheet:

| Direct materials | $\$ 59,400$ |  |
| :--- | ---: | :--- |
| Direct labor-hours | 1,254 | DLHs |
| Direct labor wage rate | $\$ 11$ | per DLH |
| Number of units completed | 3,300 | units |

The company applies manufacturing overhead on the basis of direct labor-hours. The predetermined overhead rate is $\$ 37$ per direct labor-hour.

Required:
Compute the unit product cost that would appear on the job cost sheet for this job.

B7. The Commonwealth Company uses a job-order costing system and applies manufacturing overhead cost to jobs using a predetermined overhead rate based on the cost of materials used in production. At the beginning of the year, the following estimates were made as a basis for computing the predetermined overhead rate: manufacturing overhead cost, \$186,000; direct materials cost, $\$ 155,000$. The following transactions took place during the year (all purchases and services were acquired on account):
a. Raw materials purchased, \$96,000.
b. Raw materials requisitioned for use in production (all direct materials),\$88,000.
c. Utility bills incurred in the factory, \$17,000.
d. Costs for salaries and wages incurred as follows:

| Direct labor | $\$ 174,000$ |
| :--- | ---: |
| Indirect labor | $\$ 70,000$ |
| Selling and administrative salaries | $\$ 124,000$ |

e. Maintenance costs incurred in the factory, \$12,000.
f. Advertising costs incurred, \$98,000.
g. Depreciation recorded for the year, $\$ 75,000$ ( 75 percent relates to factory assets and the remainder relates to selling, general, and administrative assets).
h. Rental cost incurred on buildings, $\$ 80,000$ ( 80 percent of the space is occupied by the factory, and 20 percent is occupied by sales and administration).
i. Miscellaneous selling, general, and administrative costs incurred, \$12,000.
j. Manufacturing overhead cost was applied to jobs.
k. Cost of goods manufactured for the year, \$480,000.
I. Sales for the year (all on account) totaled \$900,000. These goods cost \$550,000 to manufacture.

Required:
Prepare journal entries to record the information above. Key your entries by the letters a through I.
18. Maggie Manufacturing Company applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any underapplied or overapplied overhead is closed to Cost of Goods Sold at the end of the month. During August, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :--- | ---: |
| Purchased during the month | $\$ 30,000$ |
| Used in production | $\$ 34,000$ |
| Labor: | 4,000 |
| Direct labor-hours worked during the <br> month | $\$ 32,000$ |
| Direct labor costs incurred | $\$ 8,000$ |
| Indirect labor costs incurred | $\$ 22,000$ |
| Manufacturing overhead costs incurred <br> (total) | $\$ 10,000$ |
| Inventories: | $\$ 8,400$ |
| Raw materials (all direct) August 31 | $\$ 16,000$ |
| Work in process, August 1 | Work in process, August 31 |

Required:
Determine the following:
a. The August 1 balance of Raw Materials.
b. The amount of manufacturing overhead applied to jobs in August.
c. The Cost of Goods Manufactured for August.
d. The overapplied or underapplied manufacturing overhead for the month. Label this amount appropriately.
19. During December, Mccroskey Corporation incurred $\$ 66,000$ of actual Manufacturing Overhead costs. During the same period, the Manufacturing Overhead applied to Work in Process was \$69,000

Required:
Prepare journal entries to record the incurrence of manufacturing overhead and the application of manufacturing overhead to Work in Process.
14. During December, Deller Corporation purchased $\$ 79,000$ of raw materials on credit to add to its raw materials inventory. A total of $\$ 68,000$ of raw materials was requisitioned from the storeroom for use in production. These requisitioned raw materials included $\$ 4,000$ of indirectmaterials.

Required:
Prepare journal entries to record the purchase of materials and their use in production.
14. Alden Company recorded the following transactions for the just completed month. The company had no beginning inventories.
(a) $\$ 72,000$ in raw materials were purchased for cash.
(b) $\$ 67,000$ in raw materials were requisitioned for use in production. Of this amount, $\$ 56,000$ was for direct materials and the remainder was for indirect materials.
(c) Total labor wages of $\$ 112,000$ were incurred and paid in cash. Of this amount, $\$ 94,000$ was for direct labor and $\$ 18,000$ was for indirect labor.
(d) Additional manufacturing overhead costs of $\$ 108,000$ were incurred and paid incash.
(e) Manufacturing overhead costs of $\$ 130,000$ were applied to jobs using the company's predetermined overhead rate.
(f) All of the jobs worked on during the month were completed and shipped tocustomers.
(g) The underapplied or overapplied overhead for the month was closed out to Cost of Goods sold.

Required:
a. Post the above transactions to T -accounts.
b. Determine the cost of goods manufactured.
c. Determine the cost of goods sold (after closing Manufacturing Overhead).
12. Schoff Corporation has provided the following data for the most recent month:

| Raw materials, beginning balance | $\$ 12,000$ |
| :--- | ---: |
| Work in process, beginning balance | $\$ 24,000$ |
| Finished Goods, beginning balance | $\$ 54,000$ |
|  |  |
| Transactions: |  |
| (1) Raw materials purchases | $\$ 77,000$ |
| (2) Raw materials used in production (all direct materials) | $\$ 80,000$ |
| (3) Direct labor | $\$ 74,000$ |
| (4) Manufacturing overhead costs incurred | $\$ 84,000$ |
| (5) Manufacturing overhead applied | $\$ 244,000$ |
| (6) Cost of units completed and transferred from Work in Process to Finished Goods |  |
| (7) Any overapplied or underapplied manufacturing overhead is closed to Cost of Goods Sold | $?$ |
| (8) Finished goods are sold | $\$ 278,000$ |

## Required:

Prepare T-accounts for Raw Materials, Work in Process, Finished Goods, Manufacturing Overhead, and Cost of Goods Sold. Record the beginning balances and each of the transactions listed above. Finally, determine the ending balances.
14. During January, Shanker Corporation recorded the following:

| Raw materials, beginning balance | $\$ 10,000$ |
| :--- | ---: |
| Work in process, beginning balance | $\$ 24,000$ |
| Finished Goods, beginning balance | $\$ 53,000$ |


| Transactions: |  |
| :---: | :---: |
| (1) Raw materials purchases | $\$ 63,000$ |
| (2) Raw materials used in production (all <br> direct materials) | $\$ 62,000$ |
| (3) Direct labor | $\$ 75,000$ |
| (4) Manufacturing overhead costs <br> incurred | $\$ 71,000$ |
| (5) Manufacturing overhead applied | $\$ 66,000$ |
| (6) Cost of units completed and <br> transferred from Work in Process to <br> Finished Goods | $\$ 195,000$ |
| (7) Any overapplied or underapplied <br> manufacturing overhead is closed to Cost <br> of Goods Sold | $?$ |
| (8) Finished goods are sold | $\$ 222,000$ |

Required:
Prepare T-accounts for Raw Materials, Work in Process, Finished Goods, and Manufacturing Overhead, and Cost of Goods Sold. Record the beginning balances and each of the transactions listed above. Finally, determine the ending balances.
14. Sowers Inc. has provided the following data for October:

| Raw materials, beginning balance | $\$ 11,000$ |
| :--- | ---: |
| Work in process, beginning balance | $\$ 29,000$ |
| Finished Goods, beginning balance | $\$ 58,000$ |


| Transactions: |  |
| :--- | :---: |
| (1) Raw materials purchases | $\$ 67,000$ |
| (2) Raw materials used in production (all direct materials) | $\$ 68,000$ |
| (3) Direct labor | $\$ 52,000$ |
| (4) Manufacturing overhead costs incurred | $\$ 78,000$ |
| (5) Manufacturing overhead applied | $\$ 68,000$ |
| (6) Cost of units completed and transferred from Work in Process to Finished Goods | $\$ 191,000$ |
| (7) Any overapplied or underapplied manufacturing overhead is closed to Cost of Goods Sold |  |
| (8) Finished goods are sold | $\$ 244,000$ |

Required:
Prepare T-accounts for Raw Materials, Work in Process, Finished Goods, and Manufacturing Overhead, and Cost of Goods Sold. Record the beginning balances and each of the transactions listed above. Finally, determine the ending balances.
15. Pirkl Corporation has provided the following data for the month of March:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Raw materials | $\$ 25,000$ | $\$ 30,000$ |
| Work in process | $\$ 16,000$ | $\$ 18,000$ |
| Finished goods | $\$ 36,000$ | $\$ 59,000$ |


| Additional information: |  |
| :--- | ---: |
| Raw materials purchases | $\$ 71,000$ |
| Direct labor cost | $\$ 83,000$ |
| Manufacturing overhead cost incurred | $\$ 74,000$ |
| Indirect materials included in manufacturing overhead cost incurred | $\$ 5,000$ |
| Manufacturing overhead cost applied to Work in Process | $\$ 71,000$ |

Required:
Prepare a Schedule of Cost of Goods Manufactured and a Schedule of Cost of Goods Sold.

# Chapter 02 Job-Order Costing Answer Key 

## True / False Questions

The use of a predetermined overhead rate in a job-order cost system makes it possible to compute the total cost of a job before production is begun.

FALSE

AACSB: Reflective Thinking AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Understand Learning Objective: 02-01 Compute a predetermined overhead rate.

Level of Difficulty: 3 Hard
TopicArea:JobOrderCosting-The Flowof Costs
If direct labor-hours is used as the allocation base in a job-order costing system, but overhead costs are not caused by direct-labor hours, then jobs with high direct labor requirements will tend to be undercosted relative to jobs with low direct labor requirements.

FALSE

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Understand
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
LevelofDifficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead

The formula for computing the predetermined overhead rate is:
Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base

TRUE

> AACSB: Reflective Thinking
> AICPA: BB Critical Thinking
> AICPA: FN Measurement
> Accessibility: KeyboardNavigation
> Blooms: Remember

Learning Objective: 02-01 Compute a predetermined overhead rate.
Level of Difficulty: 1 Easy
TopicArea:JobOrderCosting-The Flowof Costs
When the predetermined overhead rate is based on direct labor-hours, the amount of overhead applied to a job is proportional to the estimated amount of direct labor-hours for the job.

FALSE

AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Understand
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Levelof Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead
The cost of a completed job in a job-order costing system typically consists of the actual direct materials cost of the job, the actual direct labor cost of the job, and the manufacturing overhead cost applied to the job.

TRUE

AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Remember
Learning Objective: 02-03 Computethetotalcost and averagecost per unit of a job

Job cost sheets are used to record the costs of preparing routine accountingreports.
FALSE

AACSB: Reflective Thinking AICPA: BB Critical Thinking AICPA: FN Measurement<br>Accessibility: KeyboardNavigation<br>Blooms: Understand<br>Learning Objective: 02-03 Computethetotalcost and averagecost perunitofajob.<br>LevelofDifficulty: 2 Medium<br>Topic Area: Computation of Unit Costs

In a job-order cost system, direct labor is assigned to a job using information from the employee time ticket.

TRUE

> AACSB: Reflective Thinking
> AICPA: BB Critical Thinking
> AICPA: FN Measurement
> Accessibility: KeyboardNavigation
> Blooms: Understand
> Learning Objective: 02-03 Computethetotalcost andaveragecost perunitofajob.
> LevelofDifficulty: 2 Medium
> Topic Area: Computation of Unit Costs

1 The cost categories that appear on a job cost sheet include selling expense, manufacturing expense, and administrative expense.

FALSE

AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Remember
Learning Objective: 02-03 Computethetotalcost and averagecost perunitofajob. Level of Difficulty: 1 Easy
Topic Area: Computation of Unit Costs

1 When completed goods are sold, the transaction is recorded as a debit to Cost of Goods Sold and a credit to Finished Goods.

## TRUE

AACSB: Reflective Thinking<br>AICPA: BB Critical Thinking<br>AICPA: FN Measurement<br>Accessibility: KeyboardNavigation Blooms: Understand

Learning Objective: 02-04 Understandtheflowofcostsinajob-ordercostingsystem andprepareappropriatejournalentriesto
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
1 The following entry would be used to record depreciation on manufacturing equipment:

| Work in Process | XXX |  |
| :--- | :--- | :--- |
| Accumulated Depreciation |  | XXX |

FALSE

AACSB: ReflectiveThinking
AICPA: BB CriticalThinking
AICPA: FN Measuremen
Blooms: Understand
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts
Level of Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates
1 The sum of all amounts transferred from the Work in Process account to the Finished Goods account represents the Cost of Goods Sold for the period.

FALSE

AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: Keyboard Navigation

1 Indirect materials are charged to specificjobs.

## FALSE

AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Understand
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem.
Levelof Difficulty: 2 Medium
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
1 When a job is completed, the goods are transferred from the production department to the finished goods warehouse and the journal entry would include a debit to Work in Process.

FALSE

AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Understand
Learning Objective: 02-04 Understandtheflowofcostsinajob-ordercostingsystemandprepareappropriatejournalentriesto
recordcosts
Level of Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates
. Manufacturing overhead is overapplied if actual manufacturing overhead costs for a period are greater than the amount of manufacturing overhead cost that was charged to Work in Process.

FALSE

AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms:Understand

Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 2 Medium Topic Area: Using T-accounts in Job-Order Costing

1. If the actual manufacturing overhead cost for a period exceeds the manufacturing overhead cost applied, then manufacturing overhead would be considered to beunderapplied.

TRUE

AACSB: Reflective Thinking AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation Blooms: Understand
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 2 Medium
Topic Area: Using T-accounts in Job-Order Costing

## Multiple Choice Questions

1 Emco Company uses direct labor cost as a basis for computing its predetermined overhead rate. In computing the predetermined overhead rate for last year, the company misclassified a portion of direct labor cost as indirect labor. The effect of this misclassification will beto:
A. understate the predetermined overhead rate.
B. overstate the predetermined overhead rate.
C. have no effect on the predetermined overhead rate.
D. cannot be determined from the information given.

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Analyze
Learning Objective: 02-01 Compute a predetermined overhead rate.

## 1 Departmental overhead rates are generally preferred to plant-wide overhead rateswhen:

A. the activities of the various departments in the plant are nothomogeneous.
B. the activities of the various departments in the plant arehomogeneous.
C. most of the overhead costs are fixed.
D. all departments in the plant are heavily automated.

> AACSB: Reflective Thinking
> AICPA: BB Critical Thinking
> AICPA: FN Measurement
> Accessibility: $\begin{aligned} & \text { KeyboardNavigation } \\ & \\ & \text { Blooms: Understand }\end{aligned}$

Learning Objective: 02-01 Compute a predetermined overhead rate.
LevelofDifficulty: 2 Medium
Source: CMA,adapted
TopicArea:JobOrderCosting-The Flowof Costs
1 In computing its predetermined overhead rate, Brady Company included its factory insurance cost twice. This error will result in:
A. the ending balance of Finished Goods to be understated.
B. the credits to the Manufacturing Overhead account to be understated.
C. the Cost of Goods Manufactured to be overstated.
D. the Net Operating Income to be overstated.

AACSB: Analytical Thinking AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation Blooms: Analyze
Learning Objective: 02-01 Compute a predetermined overhead rate.
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem.
Level of Difficulty: 3 Hard
TopicArea:JobOrderCosting-The Flowof Costs
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold

Which of the following entries would correctly record the application of overhead cost?
A.

| Work in Process | XXX |  |  |
| :---: | :---: | :---: | :---: |
| Accounts Payable | XXX | XX |  |
| Manufacturing Overhead |  | XXX |  |
| Accounts Payable |  |  | XXX |
| Manufacturing Overhead |  | XXX |  |
| Work in Process |  |  | XXX |
| Work in Process |  | XXX |  |
| Manufacturing Overhead |  |  | XXX |

AACSB: ReflectiveThinking AICPA: BB CriticalThinking AICPA: FN Measurement

Blooms: Remember
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
1 What journal entry is made in a job-order costing system when \$8,000 of materials are requisitioned for general factory use instead of for use in a particularjob?

| A. | Work in Process |  | $\$ 8,000$ |  |
| :--- | :--- | :--- | :--- | :--- |
| Manufacturing Overhead |  |  | $\$ 8,000$ |  |
|  | Work in Process | $\$ 8,000$ |  |  |
| Raw Materials |  | $\$ 8,000$ |  |  |
|  | C. |  |  |  |
| Manufacturing Overhead | $\$ 8,000$ |  |  |  |
| D. | Work in Process |  | $\$ 8,000$ |  |
| Manufacturing Overhead | $\$ 8,000$ |  |  |  |
| Raw Materials |  | $\$ 8,000$ |  |  |

AACSB: Reflective Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

1. A proper journal entry to record issuing raw materials to be used on a job wouldbe:


AACSB: ReflectiveThinking AICPA: BB CriticalThinking AICPA: FN Measurement Blooms: Remember Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts Levelof Difficulty: 1 Easy

1 Which of the following entries would record correctly the monthly salaries earned by the top management of a manufacturing company?

| A. | Manufacturing Overhead | XX | $x X$ |
| :---: | :---: | :---: | :---: |
| B. | Salaries and Wages Payable |  |  |
|  | Salaries Expense | XXX |  |
| C. | Salaries and Wages Payable |  | XXX |
|  | Work in Process | XXX |  |
| D. | Salaries and Wages Payable |  | XXX |
|  | Salaries and Wages Payable | XXX |  |
|  | Salaries Expense |  | XXX |

AACSB: ReflectiveThinking AICPA: BB CriticalThinking AICPA: FN Measurement Blooms: Remember

Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts
Level of Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates
1 In a job-order costing system, the use of indirect materials that have been previously purchased is recorded as a credit to:
A. Work in Process inventory.
B. Manufacturing Overhead.
C. Raw Materials inventory.
D. Finished Goods inventory.

AACSB: Reflective Thinking AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Remember
Learning Objective: 02-05 Use T-accounts to showtheflow of costsin a job-ordercostingsystem. Level of Difficulty: 1 Easy
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
! On the Schedule of Cost of Goods Manufactured, the final Cost of Goods Manufactured figure represents:
A. the amount of cost charged to Work in Process during the period.
B. the amount of cost transferred from Finished Goods to Cost of Goods Sold during the period.
C. the amount of cost placed into production during the period.
D. the amount of cost of goods completed during the current year whether they were started before or during the current year.
AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Understand
Learning Objective: 02-06 Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement.
Levelof Difficulty: 3 Hard
Topic Area: Underapplied and Overapplied Overhead

1 Overapplied manufacturing overhead means that:
A. the applied manufacturing overhead cost was less than the actual manufacturing overhead cost.
B. the applied manufacturing overhead cost was greater than the actual manufacturing overhead cost.
C. the estimated manufacturing overhead cost was less than the actual manufacturing overhead cost.
D. the estimated manufacturing overhead cost was less than the applied manufacturing overhead cost.

AACSB: Reflective Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation Blooms: Remember
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the
balance in Manufacturing Overhead to the appropriate accounts.
Levelof Difficulty: 1 Easy

1 Buker Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. Data for the upcoming year appear below:

| Estimated machine-hours | 74,000 |  |
| :--- | ---: | :--- |
| Estimated variable manufacturing overhead | $\$ 7.67$ | per machine-hour |
| Estimated variable manufacturing overhead | $\$ 1,630,960$ |  |

The predetermined overhead rate for the recently completed year was closest to:
A. $\$ 22.04$
B. $\$ 29.59$
C. $\$ 7.67$
D. $\$ 29.71$

Estimated total manufacturing overhead $=\$ 1,630,960+(\$ 7.67$ per machine-hour $\times 74,000$ machine-hours) = \$2,198,540
Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base $=\$ 2,198,540 \div 74,000$ machine-hours $=\$ 29.71$ per machinehour

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measuremen

Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Levelof Difficulty: 2 Medium
TopicArea:JobOrderCosting-The Flowof Costs

1. Hibshman Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. At the beginning of the most recently completed year, the Corporation estimated the machine-hours for the upcoming year at 10,000 machine-hours. The estimated variable manufacturing overhead was $\$ 6.82$ per machine-hour and the estimated total fixed manufacturing overhead was $\$ 230,200$. The predetermined overhead rate for the recently completed year was closest to:
A. $\$ 29.84$ per machine-hour
B. $\$ 23.15$ per machine-hour
C. $\$ 23.02$ per machine-hour
D. $\$ 6.82$ per machine-hour

Estimated total manufacturing overhead $=\$ 230,200+(\$ 6.82$ per machine-hour $\times 10,000$
machine-hours) = \$298,400
Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base $=\$ 298,400 \div 10,000$ machine-hours $=\$ 29.84$ per machine-hour

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. Levelof Difficulty: 2 Medium
TopicArea:JobOrderCosting-The Flowof Costs

1 CR Corporation has the following estimated costs for the nextyear:

| Direct materials | $\$ 4,000$ |
| :--- | ---: |
| Direct labor | $\$ 20,000$ |
| Rent on factory building | $\$ 15,000$ |
| Sales salaries | $\$ 25,000$ |
| Depreciation on factory equipment | $\$ 8,000$ |
| Indirect labor | $\$ 10,000$ |
| Production supervisor's salary | $\$ 12,000$ |

CR Corporation estimates that 20,000 labor-hours will be worked during the year. If overhead is applied on the basis of direct labor-hours, the overhead rate per hour will be:
A. $\$ 2.25$
B. $\$ 3.25$
C. $\$ 3.45$
D. $\$ 4.70$

| Rent on factory building | $\$ 15,000$ |
| :--- | ---: |
| Depreciation on factory equipment | 8,000 |
| Indirect labor | 10,000 |
| Production supervisor's salary | 12,000 |
| Total manufacturing overhead | $\$ 45,000$ |

Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base $=\$ 45,000 \div 20,000$ direct labor-hours $=\$ 2.25$ per direct laborhour

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply

Learning Objective: 02-01 Compute a predetermined overhead rate.
Levelof Difficulty: 2 Medium TopicArea:JobOrderCosting-The Flowof Costs

1 Jameson Corporation uses a predetermined overhead rate based on direct labor-hours to apply manufacturing overhead to jobs. The Corporation has provided the following estimated costs for the next year:

| Direct materials | $\$ 5,000$ |
| :--- | ---: |
| Direct labor | $\$ 19,000$ |
| Rent on factory building | $\$ 16,000$ |
| Sales salaries | $\$ 24,000$ |
| Depreciation on factory equipment | $\$ 7,000$ |
| Indirect labor | $\$ 11,000$ |
| Production supervisor's salary | $\$ 14,000$ |

Jameson estimates that 24,000 direct labor-hours will be worked during the year. The predetermined overhead rate per hour will be:
A. $\$ 2.00$
B. $\$ 2.79$
C. $\$ 3.00$
D. $\$ 4.00$

| Rent on factory building | $\$ 16,000$ |
| :--- | ---: |
| Depreciation on factory equipment | 7,000 |
| Indirect labor | 11,000 |
| Production supervisor's salary | 14,000 |
| Manufacturing overhead | $\$ 48,000$ |

Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base
Predetermined overhead rate $=\$ 48,000 \div 24,000$ direct labor-hours $=\$ 2.00$ per direct laborhour

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. Levelof Difficulty: 2 Medium
TopicArea:JobOrderCosting-The Flowof Costs

1 Paulson Corporation uses a predetermined overhead rate based on machine-hours to apply manufacturing overhead to jobs. The Corporation has provided the following estimatedcosts for next year:

| Direct materials | $\$ 25,000$ |
| :--- | ---: |
| Direct labor | $\$ 22,000$ |
| Advertising expense | $\$ 15,000$ |
| Rent on factory building | $\$ 13,500$ |
| Depreciation on factory equipment | $\$ 6,500$ |
| Indirect materials | $\$ 10,000$ |
| Sales salaries | $\$ 28,000$ |
| Insurance on factory equipment | $\$ 12,000$ |

Paulson estimated that 40,000 direct labor-hours and 20,000 machine-hours would be worked during the year. The predetermined overhead rate per machine-hour will be:
A. $\$ 1.60$
B. $\$ 2.10$
C. $\$ 1.00$
D. $\$ 1.05$

| Rent on factory building | $\$ 13,500$ |
| :--- | ---: |
| Depreciation on factory equipment | 6,500 |
| Indirect materials | 10,000 |
| Insurance on factory equipment | 12,000 |
| Manufacturing overhead | $\$ 42,000$ |

Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base

Predetermined overhead rate $=\$ 42,000 \div 20,000$ machine-hours $=\$ 2.10$ per machine-hour

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Levelof Difficulty: 2 Medium
TopicArea:JobOrderCosting-The Flowof Costs
1 Aksamit Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. Data for the most recently completed year appearbelow:

| Estimates made at the beginning of the year: |  |  |
| :--- | ---: | :--- |
| Estimated machine-hours | 62,000 |  |
| Estimated variable manufacturing overhead | $\$ 7.03$ | per machine-hour |
| Estimated total fixed manufacturing overhead | $\$ 1,486,140$ |  |
| Actual machine-hours for the year | 61,100 |  |

The predetermined overhead rate for the recently completed year was closest to:
A. $\$ 23.97$
B. $\$ 31.00$
C. $\$ 7.03$
D. \$31.35

Estimated total manufacturing overhead $=\$ 1,486,140+(\$ 7.03$ per machine-hour $\times 62,000$ machine-hours) = \$1,922,000
Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base $=\$ 1,922,000 \div 62,000$ machine-hours $=\$ 31.00$ per machinehour

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Levelof Difficulty: 2 Medium
TopicArea:JobOrderCosting-The Flowof Costs

1 Sirmons Corporation bases its predetermined overhead rate on the estimated labor-hours for the upcoming year. At the beginning of the most recently completed year, the Corporation estimated the labor-hours for the upcoming year at 70,000 labor-hours. The estimated variable manufacturing overhead was $\$ 9.93$ per labor-hour and the estimated total fixed manufacturing overhead was $\$ 1,649,200$. The actual labor-hours for the year turned out to be 74,000 laborhours. The predetermined overhead rate for the recently completed year was closestto:
A. $\$ 32.22$
B. $\$ 9.93$
C. $\$ 33.49$
D. $\$ 23.56$

Estimated total manufacturing overhead $=\$ 1,649,200+(\$ 9.93$ per labor-hour $\times 70,000$ laborhours) $=\$ 2,344,300$
Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base $=\$ 2,344,300 \div 70,000$ labor-hours $=\$ 33.49$ per labor-hour

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Levelof Difficulty: 2 Medium
TopicArea:JobOrderCosting-The Flowof Costs

1 The Work in Process inventory account of a manufacturing Corporation shows a balance of $\$ 18,000$ at the end of an accounting period. The job cost sheets of the two uncompleted jobs show charges of $\$ 6,000$ and $\$ 3,000$ for materials, and charges of $\$ 4,000$ and $\$ 2,000$ for direct labor. From this information, it appears that the Corporation is using a predetermined overhead rate, as a percentage of direct labor costs, of:
A. $50 \%$
B. $200 \%$
C. $300 \%$
D. $20 \%$

| Materials | $\$ 6,000$ | $\$ 3,000$ |
| :--- | ---: | ---: |
| Direct labor | $\$ 4,000$ | $\$ 2,000$ |
| Manufacturing overhead applied | $\$ 4,000 \mathrm{X}$ | $\$ 2,000 \mathrm{X}$ |
| Total product cost | $\$ 10,000+\$ 4,000 \mathrm{X}$ | $\$ 5,000+\$ 2,000 \mathrm{Y}$ |

$$
\begin{aligned}
& (\$ 10,000+\$ 4,000 X)+(\$ 5,000+\$ 2,000 X)=\$ 18,000 \\
& \$ 6,000 X=\$ 3,000 \\
& X=0.50
\end{aligned}
$$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Level of Difficulty: 3 Hard
Topic Area: Applying Manufacturing Overhead TopicArea:JobOrderCosting-The Flowof Costs
. The following T-accounts have been constructed from last year's records at C\&C Manufacturing:

| Raw Materials |  |  |  |
| :--- | ---: | ---: | ---: |
| Bal | 10,000 | (b) | 252,000 |
| (a) | 247,000 |  |  |
|  | 5,000 |  |  |


|  |  |  | Work In Process |  |
| :--- | ---: | ---: | ---: | :---: |
| Bal | 6,000 | (f) | 506,000 |  |
| (b) | 161,000 |  |  |  |
| (c) | 154,000 |  |  |  |
| (e) | 192,500 |  |  |  |
|  | 7,500 |  |  |  |


| Finished Goods |  |  |
| :--- | ---: | ---: |
| Bal | 0 | (g) |
| 500,000 |  |  |
| (f) | 506,000 |  |
|  | 6,000 |  |


| Manufacturing Overhead |  |  |  |
| :---: | :---: | :---: | :---: |
| (b) | 91,000 | (e) | 192,500 |
| (c) | 26,000 |  |  |
| (d) | 78,000 |  |  |
|  | 195,000 |  | 192,500 |
|  | 2,500 | (h) | 2,500 |


| Cost of Goods Sold |  |  |
| :---: | ---: | ---: |
| $(\mathrm{g})$ | 500,000 |  |
| $(\mathrm{~h})$ | 2,500 |  |
|  |  |  |

C\&C Manufacturing uses job-order costing with a predetermined overhead rate and applies manufacturing overhead to jobs based on direct labor costs. What is the predetermined overhead rate?
A. $125 \%$
B. $120 \%$
C. $100 \%$
D. $105 \%$

Entry (b) refers to materials from the Raw Materials account. Entry (c) in the Manufacturing Overhead account must refer to indirect labor because the corresponding entry in the Work In Process account must be for direct labor. Entry (c) could not be for manufacturing overhead because there would be no entry in Work In Process. Therefore, entry (c) must be for direct and indirect labor. The direct labor must be $\$ 154,000$ and the manufacturing overhead applied is the $\$ 192,500$ credit entry (e) in the Manufacturing Overhead account. Therefore,
Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred $\$ 192,500=$ Predetermined overhead rate $\times \$ 154,000$
Predetermined overhead rate $=\$ 192,500 \div \$ 154,000=1.25$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Analyze
Learning Objective: 02-01 Compute a predetermined overhead rate.
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem.

Level of Difficulty: 3 Hard
Topic Area: Applying Manufacturing Overhead
TopicArea:JobOrderCosting-The Flowof Costs
Topic Area: Schedulesof Costof Goods Manufacturedand Costof Goods Sold

1 Bradbeer Corporation uses direct labor-hours in its predetermined overhead rate. At the beginning of the year, the estimated direct labor-hours were 17,500 hours. At the end of the year, actual direct labor-hours for the year were 16,000 hours, the actual manufacturing overhead for the year was $\$ 233,000$, and manufacturing overhead for the year was underapplied by $\$ 15,400$. The estimated manufacturing overhead at the beginning of the year used in the predetermined overhead rate must have been:
A. $\$ 249,375$
B. $\$ 217,600$
C. $\$ 228,000$
D. $\$ 238,000$

Underapplied (overapplied) manufacturing overhead = Actual manufacturing overhead Manufacturing overhead applied
Manufacturing overhead applied = Actual manufacturing overhead - Underapplied manufacturing overhead
$=\$ 233,000-\$ 15,400$
$=\$ 217,600$
Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred Predetermined overhead rate $=$ Overhead applied $\div$ Amount of the allocation base incurred Predetermined overhead rate $=\$ 217,600 \div 16,000$ direct labor-hours
$=\$ 13.60$ per direct labor-hour
Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base
Estimated total manufacturing overhead $=$ Predetermined overhead rate $\times$ Estimated total amount of the allocation base
$=\$ 13.60$ per direct labor-hour $\times 17,500$ direct labor-hours
$=\$ 238,000$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Accessibility: KeyboardNavigation Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.

Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Level of Difficulty: 3 Hard Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing

1 Dagger Corporation uses direct labor-hours in its predetermined overhead rate. At the beginning of the year, the total estimated manufacturing overhead was $\$ 423,870$. At the end of the year, actual direct labor-hours for the year were 19,400 hours, manufacturing overhead for the year was underapplied by $\$ 5,650$, and the actual manufacturing overhead was $\$ 418,870$. The predetermined overhead rate for the year must have been closestto:
A. $\$ 21.59$
B. $\$ 20.76$
C. $\$ 21.30$
D. $\$ 21.85$

Underapplied (overapplied) manufacturing overhead = Actual manufacturing overhead -
Manufacturing overhead applied
Manufacturing overhead applied = Actual manufacturing overhead - Underapplied manufacturing overhead
$=\$ 418,870$ - $\$ 5,650$
$=\$ 413,220$
Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base $=\$ 413,220 \div 19,400$ direct labor-hours $=\$ 21.30$ per direct laborhour

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Accessibility: KeyboardNavigation Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the

Level of Difficulty: 3 Hard Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing

1 Sawyer Manufacturing Corporation uses a predetermined overhead rate based on direct laborhours to apply manufacturing overhead to jobs. Last year, the Corporation worked 57,000 actual direct labor-hours and incurred $\$ 345,000$ of actual manufacturing overhead cost. The Corporation had estimated that it would work 55,000 direct labor-hours during the year and incur $\$ 330,000$ of manufacturing overhead cost. The Corporation's manufacturing overhead cost for the year was:
A. overapplied by $\$ 15,000$
B. underapplied by $\$ 15,000$
C. overapplied by $\$ 3,000$
D. underapplied by $\$ 3,000$

Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base $=\$ 330,000 \div 55,000$ direct labor-hours $=\$ 6$ per direct laborhour

Overhead over or underapplied

| Actual manufacturing overhead incurred | $\$ 345,000$ |  |
| :--- | ---: | :--- |
| Manufacturing overhead applied to Work in Process: |  |  |
| Predetermined overhead rate (a) | $\$ 6$ | per direct labor-hour |
| Actual total amount of the allocation base (b) | 57,000 | direct labor-hours |
| Manufacturing overhead applied (a) $\times(\mathrm{b})$ | $\$ 342,000$ |  |
| Underapplied (overapplied) manufacturing overhead | $\$ 3,000$ |  |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. LearningObjective: 02-02 Applyoverheadcosttojobsusingapredeterminedoverheadrate Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 2 Medium

Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing

1 Clear Colors Corporation uses a predetermined overhead rate based on direct labor costs to apply manufacturing overhead to jobs. At the beginning of the year the Corporation estimated its total manufacturing overhead cost at $\$ 350,000$ and its direct labor costs at $\$ 200,000$. The actual overhead cost incurred during the year was $\$ 362,000$ and the actual direct labor costs incurred on jobs during the year was $\$ 208,000$. The manufacturing overhead for the year would be:
A. $\$ 12,000$ underapplied.
B. $\$ 12,000$ overapplied.
C. $\$ 2,000$ underapplied.
D. $\$ 2,000$ overapplied.

Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base $=\$ 350,000 \div \$ 200,000=1.75$

Overhead over or underapplied

| Actual manufacturing overhead incurred | $\$ 362,000$ |
| :--- | ---: |
| Manufacturing overhead applied to Work in Process: |  |
| Predetermined overhead rate (a) | 1.75 |
| Actual total amount of the allocation base (b) | $\$ 208,000$ |
| Manufacturing overhead applied (a) $\times(\mathrm{b})$ | $\$ 364,000$ |
| Underapplied (overapplied) manufacturing overhead | $\ldots(\$ 2,000)$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measuremen
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead TopicArea:JobOrderCosting-The Flowof Costs
$1 \quad$ Cribb Corporation uses direct labor-hours in its predetermined overhead rate. At the beginning of the year, the estimated direct labor-hours were 17,900 hours and the total estimated manufacturing overhead was $\$ 341,890$. At the end of the year, actual direct labor-hours for the year were 16,700 hours and the actual manufacturing overhead for the year was $\$ 336,890$. Overhead at the end of the year was:
A. $\$ 22,920$ underapplied
B. $\$ 17,920$ overapplied
C. $\$ 17,920$ underapplied
D. \$22,920 overapplied

Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base
$=\$ 341,890 \div 17,900$ direct labor-hours
= $\$ 19.10$ per direct labor-hour
Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred
$=\$ 19.10$ per direct labor-hour $\times 16,700$ direct labor-hours
= \$318,970
Overhead over or underapplied

| Actual manufacturing overhead incurred | $\$ 336,890$ |
| :--- | ---: |
| Manufacturing overhead applied to Work in Process | 318,970 |
| Underapplied (overapplied) manufacturing overhead | $\$ 17,920$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 2 Medium

Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing
$1 \quad$ Brusveen Corporation applies manufacturing overhead to jobs on the basis of direct laborhours. The following information relates to Brusveen for lastyear:

|  | Estimated | Actual |
| :--- | ---: | ---: |
| Direct labor-hours | 15,000 | 14,800 |
| Manufacturing overhead cost | $\$ 300,000$ | $\$ 287,120$ |

What was Brusveen's underapplied or overapplied overhead for last year?
A. \$4,000 underapplied
B. $\$ 8,880$ underapplied
C. $\$ 8,880$ overapplied
D. \$9,000 underapplied

Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base $=\$ 300,000 \div 15,000$ direct labor-hours $=\$ 20$ per direct laborhour

| Overhead over or underapplied |  |  |
| :--- | ---: | :--- |
| Actual manufacturing overhead incurred | $\underline{l}$ |  |
| Manufacturing overhead applied to Work in Process: |  |  |
| Predetermined overhead rate (a) | $\$ 20$ |  |
| Actual total amount of the allocation base (b) | 14,800 | direct labor-hours |
| Manufacturing overhead applied (a) $\times(\mathrm{b})$ | $\$ 296,000$ |  |
| Underapplied (overapplied) manufacturing overhead | $(\$ 8,880)$ |  |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Learning Objective: 02-01 Compute a predetermined overhead rate. Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing
4. Collins Corporation uses a predetermined overhead rate based on direct labor cost to apply manufacturing overhead to jobs. The following information applies to the Corporation for the current year:

| Direct labor-hours: |  |
| :--- | ---: |
| Estimated for the year | 24,000 |
| Actual hours worked | 19,500 |
| Direct labor cost: |  |
| Estimated for the year | $\$ 300,000$ |
| Actual cost incurred | $\$ 210,000$ |
| Manufacturing overhead: | $\$ 240,000$ |
| Estimated for the year | $\$ 185,000$ |
| Actual cost incurred |  |

The manufacturing overhead cost for the current year will be:
A. \$17,000 overapplied
B. $\$ 17,000$ underapplied
C. \$55,000 overapplied
D. \$55,000 underapplied

Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base $=\$ 240,000 \div \$ 300,000=0.80$

Overhead over or underapplied

| Actual manufacturing overhead incurred | $\$ 185,000$ |
| :--- | ---: |
| Manufacturing overhead applied to Work in Process: |  |
| Predetermined overhead rate (a) | 0.80 |
| Actual total amount of the allocation base (b) | $\$ 210,000$ |
| Manufacturing overhead applied (a) $\times$ (b) | $\$ 168,000$ |
| Underapplied (overapplied) manufacturing overhead | $\$ 17,000$ |

AICPA: BB CriticalThinking
AICPA: FNMeasurement
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing
! At the beginning of the year, manufacturing overhead for the year was estimated to be $\$ 477,590$. At the end of the year, actual direct labor-hours for the year were 29,000 hours, the actual manufacturing overhead for the year was $\$ 472,590$, and manufacturing overhead for the year was overapplied by $\$ 110$. If the predetermined overhead rate is based on direct laborhours, then the estimated direct labor-hours at the beginning of the year used in the predetermined overhead rate must have been:
A. 29,300 direct labor-hours
B. 28,987 direct labor-hours
C. 28,993 direct labor-hours
D. 29,000 direct labor-hours

Underapplied (overapplied) manufacturing overhead = Actual manufacturing overhead -
Manufacturing overhead applied

- $\$ 110=\$ 472,590$ - Overhead applied

Manufacturing overhead applied $=\$ 472,590+\$ 110=\$ 472,700$
Manufacturing overhead applied $=$ Predetermined overhead rate $\times$ Actual direct labor-hours
Predetermined overhead rate $=$ Manufacturing overhead applied $\div$ Actual direct labor-hours
$=\$ 472,700 \div 29,000$ direct labor-hours
= \$16.30 per direct labor-hour
Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated direct labor-hours
Estimated direct labor-hours $=$ Estimated total manufacturing overhead $\div$ Predetermined overhead rate
$=\$ 477,590 \div \$ 16.30$ per direct labor-hour
= 29,300 direct labor-hours

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Accessibility: KeyboardNavigation Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 3 Hard Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing
! Galbraith Corporation applies overhead cost to jobs on the basis of $70 \%$ of direct labor cost. If Job 201 shows $\$ 28,000$ of manufacturing overhead applied, the direct labor cost on the job was:
A. $\$ 40,000$
B. $\$ 19,600$
C. $\$ 28,000$
D. $\$ 36,400$

Manufacturing overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred
$\$ 28,000=0.70 \times$ Direct labor cost
Direct labor cost $=\$ 28,000 \div 0.70=\$ 40,000$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
LevelofDifficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead
4. Job 593 was recently completed. The following data have been recorded on its job cost sheet:

| Direct materials | $\$ 3,190$ |  |
| :--- | ---: | :--- |
| Direct labor-hours | 71 | labor-hours |
| Direct labor wage rate | $\$ 15$ | per labor-hour |
| Machine-hours | 175 | machine-hours |

The Corporation applies manufacturing overhead on the basis of machine-hours. The predetermined overhead rate is $\$ 14$ per machine-hour. The total cost that would be recorded on the job cost sheet for Job 593 would be:
A. $\$ 6,705$
B. $\$ 3,219$
C. $\$ 5,249$
D. $\$ 4,255$

| Direct materials | $\$ 3,190$ |
| :--- | ---: |
| Direct labor (71 direct labor-hours $\times \$ 15.00$ per direct labor-hour) | 1,065 |
| Overhead (175 machine-hours $\times \$ 14.00$ per machine-hour) | 2,450 |
| Total manufacturing cost for Job 593 | $\$ 6,705$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-03 Compute the total cost and average cost per unit of a job.

Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead
Topic Area: Computation of Unit Costs
. The following data have been recorded for recently completed Job 323 on its job cost sheet. Direct materials cost was $\$ 2,260$. A total of 37 direct labor-hours and 141 machine-hours were worked on the job. The direct labor wage rate is $\$ 13$ per labor-hour. The Corporation applies manufacturing overhead on the basis of machine-hours. The predetermined overhead rate is
$\$ 14$ per machine-hour. The total cost for the job on its job cost sheet would be:
A. $\$ 3,259$
B. $\$ 2,741$
C. $\$ 4,715$
D. $\$ 2,287$

| Direct materials | $\$ 2,260$ |
| :--- | ---: |
| Direct labor (37 direct labor-hours $\times \$ 13.00$ per direct labor-hour) | 481 |
| Overhead (141 machine-hours $\times \$ 14.00$ per machine-hour) | 1,974 |
| Total manufacturing cost for Job 323 | $\$ 4,715$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-03 Compute the total cost and average cost per unit of a job.

Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead Topic Area: Computation of Unit Costs

Spectrum Manufacturing had the following information in its records at the end of theyear:

| Predetermined overhead rate |  |
| :--- | ---: |
| Estimated direct labor costs |  |
| Actual direct labor costs |  |


| Manufacturing Overhead |  |
| ---: | ---: |
| 11,000 |  |
| 13,000 |  |
| 78,000 |  |

What was the balance in Manufacturing Overhead, and when closed what will the effect be on gross margin?
A. \$3,000 underapplied, and increase
B. $\$ 3,000$ overapplied, and increase
C. $\$ 3,000$ underapplied, and decrease
D. \$3,000 overapplied, and decrease

Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred
Overhead applied $=1.25 \times \$ 84,000=\$ 105,000$

| Manufacturing Overhead |  |  |
| ---: | ---: | :---: |
| 11,000 | 105,000 |  |
| 13,000 |  |  |
| 78,000 |  |  |
| 102,000 | $\underline{105,000}$ |  |
|  | 3,000 |  |

Underapplied (overapplied) manufacturing overhead = Actual manufacturing overhead Manufacturing overhead applied $=\$ 102,000-\$ 105,000=-\$ 3,000$

The overapplied overhead will decrease Cost of Goods Sold and therefore increase the gross margin.

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Analyze
Learning Objective: 02-02 Apply overhead cost to jobsusing a predetermined overhead rate. Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem.
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 3 Hard
Topic Area: Applying Manufacturing Overhead
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
Topic Area: Using T-accounts in Job-Order Costing
4. Parsons Corporation uses a predetermined overhead rate based on direct labor-hours to apply manufacturing overhead to jobs. Last year, Parsons Corporation incurred \$250,000 in actual manufacturing overhead cost. The Manufacturing Overhead account showed that overhead was overapplied $\$ 12,000$ for the year. If the predetermined overhead rate was $\$ 8.00$ per direct labor-hour, how many hours did the Corporation work during theyear?
A. 31,250 hours
B. 30,250 hours
C. 32,750 hours
D. 29,750 hours

Overapplied manufacturing overhead = Manufacturing overhead applied - Actual manufacturing overhead
Manufacturing overhead applied = Actual manufacturing overhead + Overapplied manufacturing overhead
$=\$ 250,000+\$ 12,000$
$=\$ 262,000$
Manufacturing overhead applied $=$ Predetermined overhead rate $\times$ Actual direct labor-hours Actual direct labor-hours $=$ Manufacturing overhead applied $\div$ Predetermined overhead rate
$=\$ 262,000 \div \$ 8.00$ per direct labor-hour
= 32,750 direct labor-hours

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Levelof Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead Topic Area: Using T-accounts in Job-Order Costing

1 During October, Dorinirl Corporation incurred $\$ 60,000$ of direct labor costs and $\$ 5,000$ of indirect labor costs. The journal entry to record the accrual of these wages would include a:
A. credit to Work in Process of $\$ 60,000$
B. credit to Work in Process of $\$ 65,000$
C. debit to Work in Process of $\$ 65,000$
D. debit to Work in Process of $\$ 60,000$

| Work in Process | 60,000 |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | 5,000 |  |
| Salaries and Wages Payable |  | 65,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
! Soledad Corporation had $\$ 36,000$ of raw materials on hand on December 1. During the month, the Corporation purchased an additional $\$ 71,000$ of raw materials. The journal entry to record the purchase of raw materials would include a:
A. credit to Raw Materials of $\$ 71,000$
B. debit to Raw Materials of $\$ 71,000$
C. credit to Raw Materials of $\$ 107,000$
D. debit to Raw Materials of $\$ 107,000$

| Raw Materials | 71,000 |  |
| :--- | ---: | ---: |
| Accounts Payable |  | 71,000 |

AICPA: BB CriticalThinking
AICPA: FNMeasurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
1 At the beginning of December, Sneeden Corporation had $\$ 32,000$ of raw materials on hand. During the month, the Corporation purchased an additional $\$ 71,000$ of raw materials. During December, $\$ 75,000$ of raw materials were requisitioned from the storeroom for use in production. The credits entered in the Raw Materials account during the month of December total:
A. $\$ 32,000$
B. $\$ 75,000$
C. $\$ 71,000$
D. \$103,000

| Raw Materials | 71,000 |  |
| :---: | ---: | ---: |
| Accounts Payable |  | 71,000 |
| Work in Process | 75,000 |  |
| Raw Materials |  | 75,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

1 On February 1, Manwill Corporation had $\$ 24,000$ of raw materials on hand. During the month, the Corporation purchased an additional $\$ 60,000$ of raw materials. During February, $\$ 54,000$ of raw materials were requisitioned from the storeroom for use in production. The debits entered in the Raw Materials account during the month of February total:
A. $\$ 84,000$
B. $\$ 54,000$
C. $\$ 60,000$
D. $\$ 24,000$

| Raw Materials | 60,000 |  |
| :---: | ---: | ---: |
| Accounts Payable |  |  |
| Work in Process | 50,000 |  |
| Raw Materials |  | 54,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy

1 Donham Corporation had $\$ 25,000$ of raw materials on hand on May 1. During the month, the Corporation purchased an additional $\$ 65,000$ of raw materials. During May, $\$ 66,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 4,000$. The debits to the Work in Process account as a consequence of the raw materials transactions in May total:
A. $\$ 0$
B. $\$ 62,000$
C. $\$ 65,000$
D. $\$ 66,000$

| Work in Process | 62,000 |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | 4,000 |  |
| Raw Materials |  | 66,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Level of Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates

1 During February at Iniquez Corporation, $\$ 79,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 4,000$. The journal entry to record the requisition from the storeroom would include a:
A. debit to Work in Process of $\$ 79,000$
B. debit to Work in Process of $\$ 75,000$
C. credit to Manufacturing Overhead of $\$ 4,000$
D. debit to Raw Materials of $\$ 79,000$

| Work in Process | 75,000 |  |
| :--- | ---: | ---: |
| Manufacturing Overhead | 4,000 |  |
| Raw Materials |  | 79,000 |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Level of Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates
: Epolito Corporation incurred $\$ 87,000$ of actual Manufacturing Overhead costs during September. During the same period, the Manufacturing Overhead applied to Work in Process was $\$ 89,000$. The journal entry to record the incurrence of the actual Manufacturing Overhead costs would include a:
A. debit to Work in Process of $\$ 89,000$
B. credit to Manufacturing Overhead of $\$ 87,000$
C. debit to Manufacturing Overhead of $\$ 87,000$
D. credit to Work in Process of $\$ 89,000$

To record the incurrence of actual Manufacturing Overhead costs:

| Manufacturing Overhead | 87,000 |  |
| ---: | :---: | :---: |
| Accounts Payable, Cash, other asset accounts |  | 87,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
i Traves Corporation incurred $\$ 69,000$ of actual Manufacturing Overhead costs during October. During the same period, the Manufacturing Overhead applied to Work in Process was \$68,000. The journal entry to record the application of Manufacturing Overhead to Work in Process would include a:
A. debit to Manufacturing Overhead of $\$ 68,000$
B. credit to Manufacturing Overhead of $\$ 68,000$
C. debit to Work in Process of $\$ 69,000$
D. credit to Work in Process of $\$ 69,000$

To record application of Manufacturing Overhead to Work In Process:

| Work in Process | 68,000 |  |
| :---: | :---: | :---: |
| Manufacturing Overhead |  | 68,000 |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

1 During October, Beidleman Inc. transferred $\$ 52,000$ from Work in Process to Finished Goods and recorded a Cost of Goods Sold of $\$ 55,000$. The journal entries to record these transactions would include a:
A. credit to Cost of Goods Sold of $\$ 55,000$
B. credit to Work in Process of $\$ 52,000$
C. debit to Finished Goods of $\$ 55,000$
D. credit to Finished Goods of $\$ 52,000$

| Finished Goods | 52,000 |  |
| :---: | ---: | ---: |
| Work in Process |  | 52,000 |
| Cost of Goods Sold | 55,000 |  |
| Finished Goods |  | 55,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts Levelof Difficulty: 1 Easy

1 In July, Essinger Inc. incurred \$72,000 of direct labor costs and \$3,000 of indirect labor costs. The journal entry to record the accrual of these wages would includea:
A. debit to Manufacturing Overhead of $\$ 3,000$
B. credit to Manufacturing Overhead of $\$ 3,000$
C. credit to Work in Process of $\$ 75,000$
D. debit to Work in Process of $\$ 75,000$

| Work in Process | 72,000 |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | 3,000 |  |
| Salaries and Wages Payable |  | 75,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

During May at Shatswell Corporation, $\$ 57,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 7,000$. The journal entry to record this requisition would include a debit to Manufacturing Overhead of:
A. $\$ 57,000$
B. $\$ 7,000$
C. \$0
D. $\$ 50,000$

| Work in Process | 50,000 |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | 7,000 |  |
| Raw Materials |  | 57,000 |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts

1 Which of the following entries or sets of entries would record sales for the month of July of $\$ 200,000$ for goods costing $\$ 119,000$ for?


| To record the cost of goods sold of \$119,000: |  |  |
| :---: | ---: | ---: |
| Cost of Goods Sold | 119,000 |  |
| Finished Goods |  | 119,000 |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Learning Objective: 02-06 Prepare schedules of cost of goods manufactured and cost of goods sold and an income statement.
Level of Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates Topic Area:Underappliedand Overapplied Overhead

1 Bretthauer Corporation has provided data concerning the Corporation's Manufacturing Overhead account for the month of July. Prior to the closing of the overapplied or underapplied balance to Cost of Goods Sold, the total of the debits to the Manufacturing Overhead account was $\$ 51,000$ and the total of the credits to the account was $\$ 64,000$. Which of the following statements is true?
A. Manufacturing overhead transferred from Finished Goods to Cost of Goods Sold during the month was $\$ 51,000$.
B. Manufacturing overhead applied to Work in Process for the month was\$64,000.
C. Manufacturing overhead for the month was underapplied by \$13,000.
D. Actual manufacturing overhead incurred during the month was \$64,000.

The credits to the Manufacturing overhead account consist of manufacturing overhead applied.

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. LevelofDifficulty: 2 Medium

1 Arvay Corporation has provided data concerning the Corporation's Manufacturing Overhead account for the month of October. Prior to the closing of the overapplied or underapplied balance to Cost of Goods Sold, the total of the debits to the Manufacturing Overhead account was $\$ 62,000$ and the total of the credits to the account was $\$ 52,000$. Which of the following statements is true?
A. Actual manufacturing overhead incurred during the month was \$52,000.
B. Manufacturing overhead applied to Work in Process for the month was\$62,000.
C. Manufacturing overhead for the month was underapplied by \$10,000.
D. Manufacturing overhead transferred from Finished Goods to Cost of Goods Sold during the month was \$62,000.

| Manufacturing Overhead |  |  |
| ---: | ---: | :---: |
| 62,000 | 52,000 |  |
| 10,000 |  |  |

A debit balance in Manufacturing Overhead means that manufacturing overhead was underapplied.

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates Topic Area: Using T-accounts in Job-Order Costing

1 Kaleohano Corporation has provided data concerning the Corporation's Manufacturing Overhead account for the month of July. Prior to the closing of the overapplied or underapplied balance to Cost of Goods Sold, the total of the debits to the Manufacturing Overhead account was $\$ 62,000$ and the total of the credits to the account was $\$ 73,000$. Which of the following statements is true?
A. Manufacturing overhead for the month was underapplied by $\$ 11,000$.
B. Manufacturing overhead applied to Work in Process for the month was $\$ 62,000$.
C. Manufacturing overhead transferred from Finished Goods to Cost of Goods Sold during the month was $\$ 73,000$.
D. Actual manufacturing overhead for the month was $\$ 62,000$.

The debits to the Manufacturing Overhead account consist of the actual manufacturing overhead for the month.

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Levelof Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates Topic Area: Using T-accounts in Job-Order Costing

1 The following accounts are from last year's books of Sharp Manufacturing:

| Raw Materials |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal | 0 | (b) | 87,000 |
| (a) | 93,000 |  |  |
|  | 6,000 |  |  |


| Work In Process |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal | 0 | (f) | 251,000 |
| (b) | 69,000 |  |  |
| (c) | 82,000 |  |  |
| (e) | 100,000 |  |  |
|  | 0 |  |  |


| Finished Goods |  |  |  |
| ---: | ---: | ---: | ---: |
| Bal | 0 | $(\mathrm{~g})$ | 226,000 |
| $(f)$ | 251,000 |  |  |
|  | 25,000 |  |  |


| Manufacturing Overhead |  |  |  |
| ---: | ---: | ---: | ---: |
| (b) | 18,000 | (e) | 100,000 |
| (c) | 12,000 |  |  |
| (d) | 67,000 |  |  |
| (h) | 3,000 |  |  |


| Cost of Goods Sold |  |  |  |
| :--- | ---: | ---: | ---: |
| $(\mathrm{g})$ | 226,000 | (h) | 3,000 |
|  | 223,000 |  |  |

Sharp uses job-order costing and applies manufacturing overhead to jobs based on direct labor costs. What is the amount of direct materials used for the year?
A. $\$ 93,000$
B. \$69,000
C. $\$ 87,000$
D. $\$ 82,000$

The journal entry to record Issue of direct and indirect materials was entry (a) above:

| Work in Process | 69,000 |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | 18,000 |  |
| Raw Materials |  | 87,000 |

Direct materials are debited to Work in Process; indirect materials are debited to Manufacturing Overhead.

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem.
Levelof Difficulty: 2 Medium
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold

1. The following accounts are from last year's books at Sharp Manufacturing:

| Raw Materials |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal | d | (b) | 87,000 |
| (a) | 93,000 |  |  |
|  | 5,000 |  |  |


| Work In Process |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal | (f) |  |  |
| (b) | 69,000 |  |  |
| (c) | 82,000 |  |  |
| (e) | 100,000 |  |  |
|  | 0 |  |  |


| Finished Goods |  |  |  |
| :---: | ---: | ---: | :--- |
| Bal | 0 | $(\mathrm{~g})$ |  |
| $(\mathrm{f})$ | 251,000 |  |  |
|  | 25,000 |  |  |


| Manufacturing Overhead |  |  |  |
| ---: | ---: | ---: | ---: |
| (b) | 18,000 | (e) |  |
| (c) | 12,000 |  |  |
| (d) | 67,000 |  |  |
| (h) | 3,000 |  |  |


| Cost of Goods Sold |  |  |  |
| :---: | ---: | ---: | :--- |
| $(\mathrm{g})$ | 226,000 | (h) |  |


|  | 223,000 |  |  |
| :--- | :--- | :--- | :--- |

Sharp uses job-order costing and applies manufacturing overhead to jobs based on direct labor costs. What is the amount of cost of goods manufactured for the year?
A. $\$ 255,000$
B. $\$ 251,000$
C. $\$ 223,000$
D. $\$ 226,000$

Cost of goods manufactured is represented by the debit to Finished Goods and the credit to Work in Process (entry f) = \$251,000 cost of goods manufactured

1 Compute the amount of raw materials used during August if $\$ 25,000$ of raw materials were purchased during the month and the inventories were asfollows:

|  | Balance | Balance |
| :--- | ---: | ---: |
| Inventories | August | August 31 |
| Raw Materials | $\$ 5,000$ | $\$ 3,000$ |
| Work in process | $\$ 13,000$ | $\$ 16,000$ |
| Finished goods | $\$ 25,000$ | $\$ 27,000$ |

A. $\$ 16,000$
B. $\$ 19,000$
C. $\$ 23,000$
D. $\$ 27,000$

Raw materials used in production $=$ Beginning raw materials inventory + Purchases of raw materials - Ending raw materials inventory
Raw materials used in production $=\$ 5,000+\$ 25,000-\$ 3,000=\$ 27,000$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflow of costsin a job-ordercostingsystem.
Level of Difficulty: 1 Easy
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold

1 The following accounts are from last year's books at Sharp Manufacturing:

| Raw Materials |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal |  | (b) | 87,000 |
| (a) | 93,000 |  |  |
|  | 5,000 |  |  |


| Work In Process |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal |  | (f) |  |
| (b) | 69,000 |  | 251,000 |
| (c) | 82,000 |  |  |
| (e) | 100,000 |  |  |


| Finished Goods |  |  |  |
| :---: | ---: | ---: | ---: |
| Bal | d | (g) |  |
| (f) | 251,000 |  |  |
|  | 25,000 |  |  |


| Manufacturing Overhead |  |  |  |
| ---: | ---: | ---: | ---: |
| (b) | 18,000 | (e) | 100,000 |
| (c) | 12,000 |  |  |
| (d) | 67,000 |  |  |
| (h) | 3,000 |  |  |


| Cost of Goods Sold |  |  |  |
| :--- | ---: | ---: | ---: |
| $(\mathrm{g})$ | 226,000 | (h) | 3,000 |
|  | 223,000 |  |  |

Sharp uses job-order costing and applies manufacturing overhead to jobs based on direct labor costs. What is the manufacturing overapplied or underapplied for the year?
A. \$12,000 overapplied
B. $\$ 12,000$ underapplied
C. \$3,000 overapplied
D. $\$ 3,000$ underapplied

The manufacturing overhead is overapplied by $\$ 3,000$ because the manufacturing overhead applied of \$100,000 exceeds the manufacturing overhead incurred by \$3,000.

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem.
Levelof Difficulty: 2 Medium
i Cerrone Inc. has provided the following data for the month of July. The balance in the Finished Goods inventory account at the beginning of the month was $\$ 39,000$ and at the end of the month was $\$ 47,000$. The cost of goods manufactured for the month was $\$ 188,000$. The actual manufacturing overhead cost incurred was $\$ 71,000$ and the manufacturing overhead cost applied to Work in Process was $\$ 67,000$. The adjusted cost of goods sold that would appear on the income statement for July is:
A. $\$ 196,000$
B. $\$ 184,000$
C. $\$ 180,000$
D. $\$ 188,000$

Manufacturing overhead underapplied (overapplied) = Actual manufacturing overhead incurred - Manufacturing overhead applied $=\$ 71,000-\$ 67,000=\$ 4,000$ underapplied Adjusted cost of goods sold = Beginning finished goods inventory + Cost of goods
manufactured - Ending finished goods inventory + Manufacturing overhead underapplied
$=\$ 39,000+\$ 188,000-\$ 47,000+\$ 4,000$
= \$184,000

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement Accessibility: KeyboardNavigation

Blooms: Apply
Learning Objective: 02-06 Prepare schedules of cost of goods manufactured and cost of goods sold and an income statement.
LevelofDifficulty: 2 Medium
Topic Area: Underapplied and Overapplied Overhead

1 Hudek Inc., a manufacturing Corporation, has provided the following data for the month of July. The balance in the Work in Process inventory account was $\$ 20,000$ at the beginning of the month and $\$ 10,000$ at the end of the month. During the month, the Corporation incurred direct materials cost of $\$ 50,000$ and direct labor cost of $\$ 22,000$. The actual manufacturing overhead cost incurred was $\$ 58,000$. The manufacturing overhead cost applied to Work in Process was $\$ 56,000$. The cost of goods manufactured for July was:
A. $\$ 138,000$
B. $\$ 140,000$
C. \$130,000
D. $\$ 128,000$

Cost of goods manufactured = Direct materials + Direct labor + Manufacturing overhead applied + Beginning work in process inventory - Ending work in process inventory
$=\$ 50,000+\$ 22,000+\$ 56,000+\$ 20,000-\$ 10,000$
$=\$ 138,000$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Accessibility: KeyboardNavigation Blooms: Apply
LearningObjective: 02-06 Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement. LevelofDifficulty: 2 Medium

1 Stelmack Corporation, a manufacturing Corporation, has provided data concerning its operations for September. The beginning balance in the raw materials account was $\$ 20,000$ and the ending balance was $\$ 27,000$. Raw materials purchases during the month totaled $\$ 63,000$. Manufacturing overhead cost incurred during the month was $\$ 53,000$, of which $\$ 3,000$ consisted of raw materials classified as indirect materials. The direct materials cost for September was:
A. $\$ 56,000$
B. $\$ 53,000$
C. \$70,000
D. $\$ 63,000$

Direct materials cost = Beginning raw materials inventory + Raw materials purchases - Ending raw materials - Indirect materials
$=\$ 20,000+63,000-\$ 27,000-\$ 3,000$
$=\$ 53,000$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
LearningObjective: 02-06 Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement. LevelofDifficulty: 2 Medium
Topic Area: Underapplied and Overapplied Overhead

1 Smallwood Corporation has provided the following data concerning manufacturing overhead for January:

| Actual manufacturing overhead incurred | $\$ 64,000$ |
| :--- | :--- |
| Manufacturing overhead applied to Work <br> in Process | $\$ 59,000$ |

The Corporation's Cost of Goods Sold was $\$ 223,000$ prior to closing out its Manufacturing Overhead account. The Corporation closes out its Manufacturing Overhead account to Cost of Goods Sold. Which of the following statements is true?
A. Manufacturing overhead for the month was overapplied by $\$ 5,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 228,000$
B. Manufacturing overhead for the month was underapplied by $\$ 5,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 218,000$
C. Manufacturing overhead for the month was underapplied by $\$ 5,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 228,000$
D. Manufacturing overhead for the month was overapplied by $\$ 5,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 218,000$

| Actual manufacturing overhead incurred | $\$ 64,000$ |
| :--- | ---: |
| Manufacturing overhead applied to Work in Process | 59,000 |
| Underapplied (overapplied) manufacturing overhead | $\$ 5,000$ |

Adjusted cost of goods sold = Unadjusted cost of goods sold + Underapplied manufacturing overhead - Overapplied manufacturing overhead $=\$ 223,000+\$ 5,000-\$ 0=\$ 228,000$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 2 Medium

Longstaff Inc. has provided the following data for the month of March. There were no beginning inventories; consequently, the direct materials, direct labor, and manufacturing overhead applied listed below are all for the currentmonth.

|  | Work In Process | Finished Goods | Cost of Goods Sold | Tota |
| :--- | ---: | ---: | ---: | ---: |
| Direct materials | $\$ 4,290$ | $\$ 12,480$ | $\$ 31,200$ | $\$ 47,970$ |
| Direct labor | 5,260 | 17,160 | 42,900 | 65,320 |
| Manufacturing overhead <br> applied | $\boxed{4,100}$ | $\underline{10,660}$ | $\underline{26,240}$ | $\boxed{41,000}$ |
| Total | $\$ 13,650$ | $\$ 40,300$ | $\$ 100,340$ | $\$ 154,290$ |

Manufacturing overhead for the month was overapplied by $\$ 5,000$.
The Corporation allocates any underapplied or overapplied manufacturing overhead among work in process, finished goods, and cost of goods sold at the end of the month on the basis of the manufacturing overhead applied during the month in those accounts.
The journal entry to record the allocation of any underapplied or overapplied manufacturing overhead for March would include the following:
A. debit to Work in Process of $\$ 13,650$
B. debit to Work in Process of $\$ 500$
C. credit to Work in Process of $\$ 13,650$
D. credit to Work in Process of $\$ 500$

Allocating overapplied manufacturing overhead decreases the balances in the inventory and cost of goods sold accounts, resulting in credits to those accounts.

| Manufacturing Overhead | 5,000 |  |
| :---: | ---: | ---: |
| Work in Process $(10 \% \times \$ 5,000)$ |  | 500 |
| Finished Goods $(26 \% \times \$ 5,000)$ |  | 1,300 |
| Cost of Goods Sold $(64 \% \times$ <br> $\$ 5,000)$ |  | 3,200 |

AICPA: BB CriticalThinking
AICPA: FNMeasurement Blooms: Apply
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the
balance in Manufacturing Overhead to the appropriate accounts.
Levelof Difficulty: 3 Hard
Topic Area: Using T-accounts in Job-Order Costing

The actual manufacturing overhead incurred at Fraze Corporation during Novemberwas $\$ 79,000$, while the manufacturing overhead applied to Work in Process was $\$ 65,000$. The Corporation's Cost of Goods Sold was $\$ 385,000$ prior to closing out its Manufacturing Overhead account. The Corporation closes out its Manufacturing Overhead account to Cost of Goods Sold. Which of the following statements is true?
A. Manufacturing overhead for the month was underapplied by $\$ 14,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 399,000$
B. Manufacturing overhead for the month was overapplied by $\$ 14,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 371,000$
C. Manufacturing overhead for the month was overapplied by $\$ 14,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is \$399,000
D. Manufacturing overhead for the month was underapplied by $\$ 14,000$; Cost of Goods Sold after closing out the Manufacturing Overhead account is $\$ 371,000$

| Actual manufacturing overhead incurred | $\$ 79,000$ |
| :--- | ---: |
| Manufacturing overhead applied to Work in Process | $\underline{65,000}$ |
| Underapplied (overapplied) manufacturing overhead | $\underline{\$ 14,000}$ |

Adjusted cost of goods sold = Unadjusted cost of goods sold + Underapplied manufacturing overhead - Overapplied manufacturing overhead $=\$ 385,000+\$ 14,000-\$ 0=\$ 399,000$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Analyze
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 2 Medium

1 Caber Corporation applies manufacturing overhead on the basis of machine-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 60,600$. Actual manufacturing overhead for the year amounted to $\$ 59,000$ and actual machine-hours were 5,900. The company's predetermined overhead rate for the year was $\$ 10.10$ per machine-hour.

The predetermined overhead rate was based on how many estimated machine-hours?
A. 5,783
B. 6,000
C. 5,900
D. 5,842

Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total machine-hours
Estimated total machine-hours $=$ Estimated total manufacturing overhead $\div$ Predetermined overhead rate
$=\$ 60,600 \div \$ 10.10$ per machine-hour
= 6,000 machine-hours

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Levelof Difficulty: 2 Medium
TopicArea:JobOrderCosting-The Flowof Costs

Caber Corporation applies manufacturing overhead on the basis of machine-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 60,600$. Actual manufacturing overhead for the year amounted to $\$ 59,000$ and actual machine-hours were 5,900. The company's predetermined overhead rate for the year was $\$ 10.10$ per machine-hour.

The applied manufacturing overhead for the year was closest to:
A. $\$ 58,017$
B. $\$ 59,590$
C. $\$ 60,600$
D. $\$ 58,597$

Manufacturing overhead applied $=$ Predetermined overhead rate $\times$ Actual direct labor-hours
$=\$ 10.10$ per machine-hour $\times$ 5,900 machine-hours
= \$59,590

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead
75. Caber Corporation applies manufacturing overhead on the basis of machine-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 60,600$. Actual manufacturing overhead for the year amounted to $\$ 59,000$ and actual machine-hours were 5,900. The company's predetermined overhead rate for the year was $\$ 10.10$ per machine-hour.

The overhead for the year was:
A. \$1,010 underapplied
B. $\$ 590$ overapplied
C. $\$ 590$ underapplied
D. $\$ 1,010$ overapplied

Manufacturing overhead applied $=$ Predetermined overhead rate $\times$ Actual direct labor-hours
$=\$ 10.10$ per machine-hour $\times 5,900$ machine-hours
= \$59,590

| Actual manufacturing overhead incurred | $\$ 59,000$ |
| :--- | ---: |
| Manufacturing overhead applied to Work <br> in Process | 59,590 |
| Underapplied (overapplied) manufacturing <br> overhead | $(\$ 590)$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead Topic Area: Using T-accounts in Job-Order Costing

Baker Corporation applies manufacturing overhead on the basis of direct labor-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 210,600$ and 6,000 estimated direct labor-hours. Actual manufacturing overhead for the year amounted to $\$ 209,000$ and actual direct labor-hours were 5,980.

The predetermined overhead rate for the year was closest to:
A. $\$ 34.95$
B. $\$ 34.83$
C. $\$ 34.98$
D. $\$ 35.10$

Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total direct labor-hours
$=\$ 210,600 \div 6,000$ direct labor-hours
$=\$ 35.10$ per direct labor-hour

AACSB: Analytical Thinking AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Level of Difficulty: 1 Easy
TopicArea:JobOrderCosting-The Flowof Costs
77. Baker Corporation applies manufacturing overhead on the basis of direct labor-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 210,600$ and 6,000 estimated direct labor-hours. Actual manufacturing overhead for the year amounted to $\$ 209,000$ and actual direct labor-hours were 5,980.

The applied manufacturing overhead for the year was closest to:
A. $\$ 208,283$
B. $\$ 209,001$
C. $\$ 209,898$
D. $\$ 209,180$

Manufacturing overhead applied $=$ Predetermined overhead rate $\times$ Actual direct labor-hours
$=\$ 35.10$ per direct labor-hour $\times 5,980$ direct labor-hours
= \$209,898

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead
78. Baker Corporation applies manufacturing overhead on the basis of direct labor-hours. At the beginning of the most recent year, the company based its predetermined overhead rate on total estimated overhead of $\$ 210,600$ and 6,000 estimated direct labor-hours. Actual manufacturing overhead for the year amounted to \$209,000 and actual direct labor-hours were 5,980.

The overhead for the year was:
A. $\$ 702$ underapplied
B. $\$ 898$ underapplied
C. $\$ 702$ overapplied
D. $\$ 898$ overapplied

| Actual manufacturing overhead incurred | $\$ 209,000$ |
| :--- | ---: |
| Manufacturing overhead applied to Work in Process | $\underline{209,898}$ |
| Underapplied (overapplied) manufacturing overhead | $(\$ 898)$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 1 Easy
Topic Area: Using T-accounts in Job-Order Costing
79. Acton Corporation, which applies manufacturing overhead on the basis of machine-hours, has provided the following data for its most recent year of operations.

| Estimated manufacturing overhead | $\$ 139,080$ |
| :--- | ---: |
| Estimated machine-hours | 3,800 |
| Actual manufacturing overhead | $\$ 137,000$ |
| Actual machine-hours | 3,780 |

The estimates of the manufacturing overhead and of machine-hours were made at the beginning of the year for the purpose of computing the company's predetermined overhead rate for the year.

The predetermined overhead rate is closest to:
A. $\$ 36.60$
B. $\$ 36.41$
C. $\$ 36.24$
D. $\$ 36.05$

Predetermined overhead rate $=$ Estimated total manufacturing overhead $\div$ Estimated total amount of the allocation base
$=\$ 139,080 \div 3,800$ machine-hours
= \$36.60 per machine-hour

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Level of Difficulty: 1 Easy
TopicArea:JobOrderCosting-The Flowof Costs
80. Acton Corporation, which applies manufacturing overhead on the basis of machine-hours, has provided the following data for its most recent year of operations.

| Estimated manufacturing overhead | $\$ 139,080$ |
| :--- | ---: |
| Estimated machine-hours | 3,800 |
| Actual manufacturing overhead | $\$ 137,000$ |
| Actual machine-hours | 3,780 |

The estimates of the manufacturing overhead and of machine-hours were made at the beginning of the year for the purpose of computing the company's predetermined overhead rate for the year.

The applied manufacturing overhead for the year is closest to:
A. $\$ 136,269$
B. $\$ 138,348$
C. $\$ 136,987$
D. $\$ 137,630$

Manufacturing overhead applied $=$ Predetermined overhead rate $\times$ Actual amount of the allocation base
$=\$ 36.60$ per machine-hour $\times 3,780$ machine-hours
= \$138,348

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead
81. Acton Corporation, which applies manufacturing overhead on the basis of machine-hours, has provided the following data for its most recent year of operations.

| Estimated manufacturing overhead | $\$ 139,080$ |
| :--- | ---: |
| Estimated machine-hours | 3,800 |
| Actual manufacturing overhead | $\$ 137,000$ |
| Actual machine-hours | 3,780 |

The estimates of the manufacturing overhead and of machine-hours were made at the beginning of the year for the purpose of computing the company's predetermined overhead rate for the year.

The overhead for the year was:
A. $\$ 732$ underapplied
B. $\$ 1,348$ underapplied
C. $\$ 732$ overapplied
D. $\$ 1,348$ overapplied

| Actual manufacturing overhead incurred | $\$ 137,000$ |
| :--- | :--- |
| Manufacturing overhead applied to Work <br> in Process | 138,348 |
| Underapplied (overapplied) <br> manufacturing overhead | $(\$ 1,348)$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts

Level of Difficulty: 1 Easy
Topic Area: Using T-accounts in Job-Order Costing
82. Meyers Corporation had the following inventory balances at the beginning and end of November:

|  | November 1 | November 30 |
| :--- | ---: | ---: |
| Raw Materials | $\$ 17,000$ | $\$ 20,000$ |
| Finished Goods | $\$ 50,000$ | $\$ 44,000$ |
| Work in Process | $\$ 9,000$ | $\$ 11,000$ |

During November, $\$ 39,000$ in raw materials (all direct materials) were drawn from inventory and used in production. The company's predetermined overhead rate was $\$ 8$ per direct laborhour, and it paid its direct labor workers $\$ 10$ per hour. A total of 300 hours of direct labor time had been expended on the jobs in the beginning Work in Process inventory account. The ending Work in Process inventory account contained $\$ 4,700$ of direct materials cost. The Corporation incurred $\$ 28,000$ of actual manufacturing overhead cost during the month and applied $\$ 26,400$ in manufacturing overhead cost.

The raw materials purchased during November totaled:
A. $\$ 42,000$
B. $\$ 45,000$
C. $\$ 36,000$
D. $\$ 39,000$

Raw materials used in production $=$ Beginning raw materials inventory + Purchases of raw materials - Ending raw materials inventory $\$ 39,000=\$ 17,000+$ Purchases of raw materials - \$20,000

Purchases of raw materials $=\$ 39,000-\$ 17,000+\$ 20,000=\$ 42,000$

> AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Accessibility: KeyboardNavigation

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
83. Meyers Corporation had the following inventory balances at the beginning and end of

November:

|  | November 1 | November 30 |
| :--- | ---: | ---: |
| Raw Materials | $\$ 17,000$ | $\$ 20,000$ |
| Finished Goods | $\$ 50,000$ | $\$ 44,000$ |
| Work in Process | $\$ 9,000$ | $\$ 11,000$ |

During November, $\$ 39,000$ in raw materials (all direct materials) were drawn from inventory and used in production. The company's predetermined overhead rate was $\$ 8$ per direct laborhour, and it paid its direct labor workers $\$ 10$ per hour. A total of 300 hours of direct labor time had been expended on the jobs in the beginning Work in Process inventory account. The ending Work in Process inventory account contained $\$ 4,700$ of direct materials cost. The Corporation incurred $\$ 28,000$ of actual manufacturing overhead cost during the month and applied $\$ 26,400$ in manufacturing overhead cost.

The direct materials cost in the November 1 Work in Process inventory account totaled:
A. $\$ 6,600$
B. $\$ 6,000$
C. $\$ 3,600$
D. $\$ 3,000$

Beginning work in process inventory = Direct materials + Direct labor + Manufacturing overhead applied to work in process
Direct material = Beginning work in process inventory - Direct labor - Manufacturing overhead applied to work in process
Direct material $=\$ 9,000-$ ( $\$ 10$ per direct labor-hour $\times 300$ direct labor-hours) - ( $\$ 8$ per direct labor-hour $\times 300$ direct labor-hours)
Direct material $=\$ 9,000-\$ 3,000-\$ 2,400=\$ 3,600$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-02 Applyoverheadcost to jobsusinga predeterminedoverheadrate.

Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts
Levelof Difficulty: 3 Hard
Topic Area: Applying Manufacturing Overhead Topic Area: Computing Predetermined Overhead Rates
8. Meyers Corporation had the following inventory balances at the beginning and end of November:

|  | November 1 | November 30 |
| :--- | ---: | ---: |
| Raw Materials | $\$ 17,000$ | $\$ 20,000$ |
| Finished Goods | $\$ 50,000$ | $\$ 44,000$ |
| Work in Process | $\$ 9,000$ | $\$ 11,000$ |

During November, \$39,000 in raw materials (all direct materials) were drawn from inventory and used in production. The company's predetermined overhead rate was $\$ 8$ per direct laborhour, and it paid its direct labor workers $\$ 10$ per hour. A total of 300 hours of direct labor time had been expended on the jobs in the beginning Work in Process inventory account. The ending Work in Process inventory account contained $\$ 4,700$ of direct materials cost. The Corporation incurred $\$ 28,000$ of actual manufacturing overhead cost during the month and applied $\$ 26,400$ in manufacturing overhead cost.

The actual direct labor-hours worked during November totaled:
A. 2,800 hours
B. 3,300 hours
C. 3,500 hours
D. 3,600 hours

Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred Amount of the allocation base incurred $=$ Overhead applied $\div$ Predetermined overhead rate Amount of the allocation base incurred $=\$ 26,400 \div \$ 8$ per direct labor-hour $=3,300$ direct labor-hours

AACSB: Analytical Thinking AICPA: BB Critical Thinking
AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Level of Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead
Topic Area: Computing Predetermined Overhead Rates

Meyers Corporation had the following inventory balances at the beginning and end of November:

|  | November 1 | November 30 |
| :--- | ---: | ---: |
| Raw Materials | $\$ 17,000$ | $\$ 20,000$ |
| Finished Goods | $\$ 50,000$ | $\$ 44,000$ |
| Work in Process | $\$ 9,000$ | $\$ 11,000$ |

During November, $\$ 39,000$ in raw materials (all direct materials) were drawn from inventory and used in production. The company's predetermined overhead rate was $\$ 8$ per direct laborhour, and it paid its direct labor workers $\$ 10$ per hour. A total of 300 hours of direct labor time had been expended on the jobs in the beginning Work in Process inventory account. The ending Work in Process inventory account contained $\$ 4,700$ of direct materials cost. The Corporation incurred $\$ 28,000$ of actual manufacturing overhead cost during the month and applied $\$ 26,400$ in manufacturing overhead cost.

The amount of direct labor cost in the November 30 Work in Process inventory was:
A. $\$ 2,800$
B. $\$ 3,300$
C. $\$ 3,500$
D. $\$ 6,300$

Ending work in process inventory = Direct materials + Direct labor + Manufacturing overhead applied to work in process

$$
\$ 11,000=\$ 4,700+\$ 10 X+\$ 8 X
$$

$$
\$ 18 X=\$ 11,000-\$ 4,700=\$ 6,300
$$

$$
X=350
$$

Direct labor cost $=\$ 10 \times 350=\$ 3,500$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
record costs
A. $\$ 0$
B. $\$ 6,700$
C. $\$ 4,500$
D. $\$ 8,500$

Beginning balance work in process inventory = Direct Materials + Direct labor + Manufacturing overhead applied
Beginning balance work in process inventory $=\$ 4,000+(\$ 9.00$ per direct labor-hour $\times 300$
direct labor-hours) $+(\$ 6.00$ per direct labor-hour $\times 300$ direct labor-hours $)=\$ 4,000+\$ 2,700$
$+\$ 1,800=\$ 8,500$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Learning Objective: 02-03 Compute the total cost and average cost per unit of a job.
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Level of Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead
Topic Area: Computation of Unit Costs
Topic Area: Computing Predetermined Overhead Rates
87. The direct labor rate for Brent Corporation is $\$ 9.00$ per hour, and manufacturing overhead is applied to products using a predetermined overhead rate of $\$ 6.00$ per direct labor-hour. During May, the company purchased $\$ 60,000$ in raw materials (all direct materials) and worked 3,200 direct labor-hours. The Raw Materials inventory (all direct materials) decreased by $\$ 3,000$ between the beginning and end of May. The Work in Process inventory on May 1 consisted of one job which had been charged with $\$ 4,000$ in direct materials and on which 300 hours of direct labor time had been worked. There was no Work in Process inventory on May31.

The debit to Work in Process for the cost of direct materials used during May was:
A. $\$ 63,000$
B. $\$ 61,000$
C. $\$ 57,000$
D. $\$ 67,000$

Raw materials used in production $=$ Beginning raw materials inventory + Purchases of raw materials - Ending raw materials inventory
Raw materials used in production $=$ Purchases of raw materials + (Beginning raw materials inventory - Ending raw materials inventory)
Raw materials used in production $=\$ 60,000+\$ 3,000=\$ 63,000$

| Work in Process | 63,000 |  |
| :---: | ---: | ---: |
| Raw Materials |  | 63,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 3 Hard
Topic Area: Computing Predetermined Overhead Rates
88. The direct labor rate for Brent Corporation is $\$ 9.00$ per hour, and manufacturing overhead is applied to products using a predetermined overhead rate of $\$ 6.00$ per direct labor-hour. During May, the company purchased $\$ 60,000$ in raw materials (all direct materials) and worked 3,200 direct labor-hours. The Raw Materials inventory (all direct materials) decreased by $\$ 3,000$ between the beginning and end of May. The Work in Process inventory on May 1 consisted of one job which had been charged with $\$ 4,000$ in direct materials and on which 300 hours of direct labor time had been worked. There was no Work in Process inventory on May31.

The debit to Work in Process for direct labor cost during May was:
A. $\$ 21,000$
B. $\$ 26,100$
C. $\$ 28,800$
D. $\$ 31,500$

| Work in Process | 28,800 |  |
| ---: | :---: | :---: |
| Wages payable (\$9 per direct-labor- <br> hour $\times 3,200$ direct labor-hours) |  | 28,800 |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
89. The direct labor rate for Brent Corporation is $\$ 9.00$ per hour, and manufacturing overhead is applied to products using a predetermined overhead rate of $\$ 6.00$ per direct labor-hour. During May, the company purchased $\$ 60,000$ in raw materials (all direct materials) and worked 3,200 direct labor-hours. The Raw Materials inventory (all direct materials) decreased by $\$ 3,000$ between the beginning and end of May. The Work in Process inventory on May 1 consisted of one job which had been charged with $\$ 4,000$ in direct materials and on which 300 hours of direct labor time had been worked. There was no Work in Process inventory on May31.

If overhead was underapplied by $\$ 2,500$ during May, the actual overhead cost for the month must have been:
A. $\$ 16,700$
B. $\$ 21,700$
C. $\$ 18,500$
D. $\$ 23,500$

Underapplied (overapplied) manufacturing overhead = Actual manufacturing overhead Manufacturing overhead applied $\$ 2,500=$ Actual manufacturing overhead - (\$6.00 per direct labor-hour $\times$ 3,200 direct laborhours)
Actual manufacturing overhead $=\$ 2,500+(\$ 6.00$ per direct labor-hour $\times 3,200$ direct laborhours)
$=\$ 2,500+\$ 19,200=\$ 21,700$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Level of Difficulty: 3 Hard
Topic Area: Applying Manufacturing Overhead
Topic Area: Using T-accounts in Job-Order Costing
90. Killian Corporation began operations on January 1. The predetermined overhead rate was set at $\$ 6.00$ per direct labor-hour. Debits to Work in Process for the year totaled $\$ 550,000$. Credits to Work in Process totaled \$480,000. Analysis of the Corporation's records indicate that direct labor cost totaled $\$ 250,000$ for the year, which represents 20,000 direct labor-hours.

The direct materials used in production during the year totaled:
A. $\$ 180,000$
B. $\$ 240,000$
C. \$130,000
D. $\$ 120,000$

Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred Overhead applied $=\$ 6.00$ per direct labor-hour $\times 20,000$ direct labor-hours $=\$ 120,000$

| Work In Process |  |  |
| :--- | ---: | :--- |
| Bal | O |  |
| Direct materials | $?$ |  |
| Direct labor | 250,000 |  |
| Manufacturing overhead | 120,000 |  |
|  | 550,000 | 480,000 |

$\$ 550,000=\$ 0+$ Direct Materials $+\$ 250,000+\$ 120,000$
Direct Materials $=\$ 550,000-(\$ 0+\$ 250,000+\$ 120,000)=\$ 180,000$
AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measuremen

Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobsusing a predetermined overhead rate. Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem.

Levelof Difficulty: 3 Hard
Topic Area: Applying Manufacturing Overhead
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
91. Killian Corporation began operations on January 1. The predetermined overhead rate was set at $\$ 6.00$ per direct labor-hour. Debits to Work in Process for the year totaled $\$ 550,000$. Credits to Work in Process totaled \$480,000. Analysis of the Corporation's records indicate that direct labor cost totaled $\$ 250,000$ for the year, which represents 20,000 direct labor-hours.

If the actual manufacturing overhead cost for the year totaled $\$ 145,000$, then overhead was:
A. overapplied by $\$ 25,000$
B. overapplied by $\$ 10,000$
C. underapplied by $\$ 25,000$
D. underapplied by $\$ 10,000$

Overhead over or underapplied

| Actual manufacturing overhead incurred | $\$ 145,000$ |
| :--- | :--- |
| Manufacturing overhead applied to Work <br> in Process | 120,000 |
| Underapplied (overapplied) <br> manufacturing overhead | $\$ 25,000$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 2 Medium Topic Area: Using T-accounts in Job-Order Costing
92. Killian Corporation began operations on January 1. The predetermined overhead rate was set at $\$ 6.00$ per direct labor-hour. Debits to Work in Process for the year totaled $\$ 550,000$. Credits to Work in Process totaled $\$ 480,000$. Analysis of the Corporation's records indicate that direct labor cost totaled $\$ 250,000$ for the year, which represents 20,000 direct labor-hours.

The Corporation's ending work in process inventory consisted of one job, Job 42. The job had been charged with \$28,000 of direct labor cost, which consisted of 2,000 actual labor-hours. The direct materials cost in Job 42 totaled:
A. $\$ 33,000$
B. $\$ 42,000$
C. $\$ 17,000$
D. $\$ 30,000$

Computation of ending work in process inventory:

| Work in Process |  |
| ---: | ---: |
| 550,000 | 480,000 |
| 70,000 |  |

Ending work in process inventory = Direct materials + Direct labor + Manufacturing overhead applied
$\$ 70,000=$ Direct materials $+\$ 28,000+(\$ 6.00$ per direct labor-hour $\times 2,000$ actual laborhours)
$\$ 70,000=$ Direct materials $+\$ 28,000+\$ 12,000$
Direct materials $=\$ 70,000-(\$ 28,000+\$ 12,000)=\$ 30,000$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem.
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 3 Hard Topic Area: Schedulesof Costof Goods Manufacturedand Costof Goods Sold Topic Area: Using T-accounts in Job-Order Costing

On March 1, Metevier Corporation had $\$ 37,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 62,000$ of raw materials. During March, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$.

The journal entry to record the purchase of raw materials would include a:
A. credit to Raw Materials of $\$ 62,000$
B. credit to Raw Materials of $\$ 99,000$
C. debit to Raw Materials of \$99,000
D. debit to Raw Materials of $\$ 62,000$

| Raw Materials | $\$ 62,000$ |  |
| :---: | :---: | :---: |
| Accounts Payable |  | $\$ 62,000$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

On March 1, Metevier Corporation had $\$ 37,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 62,000$ of raw materials. During March, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$.

The journal entry to record the requisition from the storeroom would include a:
A. debit to Work in Process of $\$ 69,000$
B. debit to Work in Process of $\$ 63,000$
C. debit to Raw Materials of $\$ 69,000$
D. credit to Manufacturing Overhead of $\$ 6,000$

| Work in Process | $\$ 63,000$ |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | $\$ 6,000$ |  |
| Raw Materials |  |  |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measuremen

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

Chelm Music Corporation manufactures violins, violas, cellos, and fiddles and uses a job-order costing system.

What account should Chelm debit when the workers who carve the wood for the instruments have earned their pay?
A. Direct Labor
B. Work in Process
C. Manufacturing Overhead
D. Salaries and Wages Receivable
E. Salaries and Wages Expense

Incurring direct labor cost:

| Work in Process | $X X X$ |  |
| :---: | :---: | :---: |
| Salaries and Wages Payable |  | $X X X$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

Chelm Music Corporation manufactures violins, violas, cellos, and fiddles and uses a job-order costing system.

What account should Chelm debit when the production manager has earned her salary?
A. Direct Labor
B. Work in Process
C. Manufacturing Overhead
D. Salaries and Wages Receivable
E. Salaries and Wages Expense

Incurring indirect labor cost:

| Manufacturing Overhead | XXX |  |
| :---: | :---: | :---: |
| Salaries and Wages Payable |  | XXX |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts
Level of Difficulty: 2 Medium
Topic Area: Computing Predetermined Overhead Rates

Chelm Music Corporation manufactures violins, violas, cellos, and fiddles and uses a job-order costing system.

What account should Chelm debit when the president of the company has earned her salary?
A. Direct Labor
B. Work in Process
C. Manufacturing Overhead
D. Salaries and Wages Receivable
E. Salaries and Wages Expense

| Salaries and Wages Expense | XXX |  |
| :---: | :---: | :---: |
| Salaries and Wages Payable |  | XXX |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

Chelm Music Corporation manufactures violins, violas, cellos, and fiddles and uses a job-order costing system.

What is one of the accounts that Chelm should credit when goods are sold?
A. Finished Goods
B. Work in Process
C. Cost of Goods Sold
D. Manufacturing Overhead
E. Cost of Goods Manufactured

| Cost of Goods Sold | XXX |  |
| :---: | :---: | :---: |
| Finished Goods |  | $X X X$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

The journal entry to record the incurrence of the actual Manufacturing Overhead costs would include a:
A. debit to Manufacturing Overhead of $\$ 65,000$
B. credit to Manufacturing Overhead of $\$ 65,000$
C. credit to Work in Process of $\$ 60,000$
D. debit to Work in Process of $\$ 60,000$

| Manufacturing Overhead | $\$ 65,000$ |  |
| ---: | :--- | :--- |
| Accounts Payable, Cash, or other Asset accounts |  | $\$ 65,000$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

During February, Irving Corporation incurred $\$ 65,000$ of actual Manufacturing Overhead costs. During the same period, the Manufacturing Overhead applied to Work in Process was $\$ 60,000$.

The journal entry to record the application of Manufacturing Overhead to Work in Process would include a:
A. debit to Work in Process of $\$ 65,000$
B. credit to Work in Process of $\$ 65,000$
C. credit to Manufacturing Overhead of $\$ 60,000$
D. debit to Manufacturing Overhead of $\$ 60,000$

| Work in Process | $\$ 60,000$ |  |
| :---: | ---: | ---: |
| Manufacturing Overhead |  | $\$ 60,000$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measuremen
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
10. On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The debits entered in the Raw Materials account during the month of August total:
A. $\$ 91,000$
B. $\$ 69,000$
C. $\$ 35,000$
D. $\$ 56,000$

| Raw Materials | $\$ 56,000$ |  |
| :---: | :---: | :---: |
| Accounts Payable |  | $\$ 56,000$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The credits to the Raw Materials account for the month of August total:
A. $\$ 35,000$
B. $\$ 91,000$
C. $\$ 56,000$
D. $\$ 69,000$

| Work in Process | $\$ 63,000$ |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | $\$ 6,000$ |  |
| Raw Materials |  | $\$ 69,000$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

On August 1, Shead Corporation had \$35,000 of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The debits to the Work in Process account as a consequence of the raw materials transactions in August total:
A. $\$ 56,000$
B. $\$ 0$
C. $\$ 63,000$
D. $\$ 69,000$

| Work in Process | $\$ 63,000$ |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | $\$ 6,000$ |  |
| Raw Materials |  | $\$ 69,000$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The credits to the Work in Process account as a consequence of the raw materials transactions in August total:
A. $\$ 56,000$
B. $\$ 63,000$
C. $\$ 0$
D. $\$ 69,000$

There were no credits to the Work in Process account in August, only debits.

> AACSB: Analytical Thinking
> AICPA: BB Critical Thinking
> AICPA: FN Measurement
> Accessibility: KeyboardNavigation

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The debits to the Manufacturing Overhead account as a consequence of the raw materials transactions in August total:
A. $\$ 6,000$
B. $\$ 69,000$
C. \$0
D. $\$ 63,000$

| Work in Process | $\$ 63,000$ |  |
| :--- | ---: | ---: |
| Manufacturing Overhead | $\$ 6,000$ |  |
| Raw Materials |  | $\$ 69,000$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates

On August 1, Shead Corporation had $\$ 35,000$ of raw materials on hand. During the month, the company purchased an additional $\$ 56,000$ of raw materials. During August, $\$ 69,000$ of raw materials were requisitioned from the storeroom for use in production. These raw materials included both direct and indirect materials. The indirect materials totaled $\$ 6,000$. Prepare journal entries to record these events. Use those journal entries to answer the following questions:

The credits to the Manufacturing Overhead account as a consequence of the raw materials transactions in August total:
A. $\$ 0$
B. $\$ 63,000$
C. $\$ 69,000$
D. $\$ 6,000$

There were no credits to the Manufacturing overhead account in August, only debits.

AACSB: Analytical Thinking<br>AICPA: BB Critical Thinking<br>AICPA: FN Measuremen<br>Accessibility: KeyboardNavigation

Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
10. Dillon Corporation applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any under or overapplied manufacturing overhead cost is closed out to Cost of Goods Sold at the end of the month. During May, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :---: | ---: |
| Purchased during the month | $\$ 38,000$ |
| Used in production | $\$ 35,000$ |
| Labor: | 3,150 |
| Direct labor-hours worked during the <br> month | $\$ 30,000$ |
| Direct labor cost incurred | $\$ 24,500$ |
| Manufacturing overhead cost incurred <br> (total) | $\$ 8,000$ |
| Inventories: | $\$ 9,000$ |
| Raw materials (all direct), May 31 | $\$ 12,000 \star$ |
| Work in process, May 1 |  |
| Work in process, May 31 |  |
| *Contains $\$ 4,400$ in direct labor cost. |  |

The balance on May 1 in the Raw Materials inventory account was:
A. $\$ 11,000$
B. $\$ 5,000$
C. $\$ 7,000$
D. $\$ 9,000$

| Raw Materials |  |  |  |
| :--- | ---: | ---: | ---: |
| Bal | $\searrow$ Used in production | 35,000 |  |
| Purchases | 38,000 |  |  |
|  | 8,000 |  |  |

$$
\$ 8,000=X+\$ 38,000-\$ 35,000
$$

$$
X=\$ 8,000-(\$ 38,000-\$ 35,000)=\$ 5,000
$$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Levelof Difficulty: 2 Medium
10. Dillon Corporation applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any under or overapplied manufacturing overhead cost is closed out to Cost of Goods Sold at the end of the month. During May, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :---: | :---: |
| Purchased during the month | \$38,00 |
| Used in production | \$35,00 |
| Labor: |  |
| Direct labor-hours worked during the month | 3,15 |
| Direct labor cost incurred | \$30,00 |
| Manufacturing overhead cost incurred (total) | \$24,500 |
| Inventories: |  |
| Raw materials (all direct), May 31 | \$8,000 |
| Work in process, May 1 | \$9,000 |
| Work in process, May 31 | \$12,000 |
| *Contains \$4,400 in direct labor cost. |  |

The amount of direct materials cost in the May 31 Work in Process inventory account was:
A. $\$ 7,600$
B. $\$ 2,000$
C. $\$ 6,300$
D. $\$ 4,300$

Ending work in process inventory $=$ Direct materials + Direct labor + Manufacturing overhead applied
$\$ 12,000=$ Direct materials $+\$ 4,400+(0.75 \times \$ 4,400)$
Direct materials $=\$ 12,000-\$ 4,400-(0.75 \times \$ 4,400)=\$ 4,300$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Levelof Difficulty: 3 Hard
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
10. Dillon Corporation applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any under or overapplied manufacturing overhead cost is closed out to Cost of Goods Sold at the end of the month. During May, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :---: | :---: |
| Purchased during the month | \$38,00 |
| Used in production | \$35,00 |
| Labor: |  |
| Direct labor-hours worked during the month | 3,15 |
| Direct labor cost incurred | \$30,00 |
| Manufacturing overhead cost incurred (total) | \$24,500 |
| Inventories: |  |
| Raw materials (all direct), May 31 | \$8,000 |
| Work in process, May 1 | \$9,000 |
| Work in process, May 31 | \$12,000 |
| *Contains \$4,400 in direct labor cost. |  |

The entry to dispose of the under or overapplied manufacturing overhead cost for the month
would include:
A. a debit of $\$ 2,000$ to the Manufacturing Overhead account.
B. a credit of $\$ 2,500$ to the Manufacturing Overhead account.
C. a debit of $\$ 2,000$ to Cost of Goods Sold.
D. a credit of $\$ 2,500$ to Cost of Goods Sold.

Overhead over or underapplied

| Actual manufacturing overhead incurred | $\$ 24,500$ |
| :---: | ---: |
| Manufacturing overhead applied to Work <br> in Process: |  |
| Predetermined overhead rate (a) | 0.75 |
| Actual total amount of the allocation <br> base (b) | $\$ 30,000$ |
| Manufacturing overhead applied (a) $\times$ <br> (b) | $\$ 22,500$ |
| Underapplied (overapplied) manufacturing <br> overhead | $\$ 2,000$ |

Closing out balance in Manufacturing Overhead to COGS:
Underapplied overhead:

| Cost of Goods Sold | $\$ 2,000$ |  |
| :---: | ---: | ---: |
| Manufacturing Overhead |  | $\$ 2,000$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Levelof Difficulty: 2 Medium
Topic Area: Using T-accounts in Job-Order Costing
t0. Dillon Corporation applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any under or overapplied manufacturing overhead cost is closed out to Cost of Goods Sold at the end of the month. During May, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :--- | ---: |
| Purchased during the month | $\$ 38,000$ |
| Used in production | $\$ 35,000$ |
| Labor: | $\$ 3,150$ |
| Direct labor-hours worked during the <br> month | $\$ 24,500$ |
| Direct labor cost incurred | $\$ 8,000$ |
| Manufacturing overhead cost incurred <br> (total) | $\$ 9,000$ |
| Inventories: | $\$ 12,000 *$ |
| Raw materials (all direct), May 31 |  |
| Work in process, May 1 |  |
| Work in process, May 31 |  |
| *Contains \$4,400 in direct labor cost. |  |

The Cost of Goods Manufactured for May was:
A. $\$ 84,500$
B. $\$ 95,000$
C. $\$ 75,500$
D. $\$ 81,500$

Cost of Goods Manufactured

| Direct materials | $\$ 35,000$ |
| :--- | ---: |
| Direct labor | 30,000 |
| Manufacturing overhead cost applied to work in process | $\underline{22,500}$ |


| $(0.75 \times \$ 30,0000)$ |  |
| :--- | ---: |
| Total manufacturing costs | 87,500 |
| Add: Beginning work in process inventory | 9,000 |
|  | 96,500 |
| Deduct: Ending work in process inventory | 12,000 |
| Cost of goods manufactured | $\$ 84,500$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-06 Prepare schedules of cost of goods manufactured and cost of goods sold and an income statement. Levelof Difficulty: 2 Medium
Topic Area: Underapplied and Overapplied Overhead

Echo Corporation uses a job-order costing system and applies overhead to jobs using a predetermined overhead rate. During the year the company's Finished Goods inventory account was debited for $\$ 360,000$ and credited for $\$ 338,800$. The ending balance in the Finished Goods inventory account was $\$ 36,600$. At the end of the year, manufacturing overhead was overapplied by \$15,900.

The balance in the Finished Goods inventory account at the beginning of the year was:
A. $\$ 15,900$
B. $\$ 15,400$
C. $\$ 21,200$
D. $\$ 36,600$

Ending finished goods inventory = Beginning finished goods inventory + Debits - Credits
$\$ 36,600=$ Beginning finished goods inventory $+\$ 360,000-\$ 338,800$
Beginning finished goods inventory $=\$ 36,600-\$ 360,000+\$ 338,800=\$ 15,400$

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Accessibility: KeyboardNavigation
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
12. Echo Corporation uses a job-order costing system and applies overhead to jobs using a predetermined overhead rate. During the year the company's Finished Goods inventory account was debited for $\$ 360,000$ and credited for $\$ 338,800$. The ending balance in the Finished Goods inventory account was $\$ 36,600$. At the end of the year, manufacturing overhead was overapplied by \$15,900.

If the applied manufacturing overhead was $\$ 169,300$, the actual manufacturing overhead cost for the year was:
A. $\$ 168,800$
B. $\$ 153,400$
C. $\$ 190,000$
D. $\$ 185,200$

Underapplied (overapplied) manufacturing overhead = Actual manufacturing overhead Manufacturing overhead applied

- \$15,900 = Actual manufacturing overhead - \$169,300

Actual manufacturing overhead $=\$ 169,300-\$ 15,900=\$ 153,400$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Accessibility: KeyboardNavigation Blooms: Apply
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 2 Medium
13. The following partially completed T -accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | :---: |
| Beg Bal | 1,900 | 22,900 |  |
|  | 26,300 |  |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | ---: |
|  | 2,600 |  | 6,800 |
|  | 3,000 |  |  |
|  | 1,900 |  |  |


| Wages \& Salaries Payable |  |  |  |
| :--- | :--- | :--- | :--- |
|  | 12,300 | Beg Bal | 1,400 |
|  |  |  | 11,000 |


| Cost of Goods Sold |  |  |  |
| :--- | :--- | :--- | :--- |
| 22,900 |  |  |  |

The Cost of Goods Manufactured was:
A. $\$ 22,900$
B. $\$ 26,300$
C. $\$ 6,400$
D. $\$ 49,200$

| Work in Process |  |  |  |
| :--- | ---: | ---: | ---: |
| Beg Bal | 4,600 | COGM | 26,300 |
| Direct materials | 7,400 |  |  |
| Direct labor | 8,000 |  |  |
| Manufacturing overhead applied | 6,800 |  |  |
|  |  |  |  |
| Beg Bal |  |  |  |
| COGM | 1,900 | 22,900 |  |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Levelof Difficulty: 2 Medium
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold

TH. The following partially completed T -accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | ---: |
| Beg Bal | 1,900 | 22,900 |  |
|  | 26,300 |  |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | ---: |
|  | 2,600 |  | 6,800 |
|  | 3,000 |  |  |
|  | 1,900 |  |  |


| Wages \& Salaries Payable |  |  |  |
| :---: | :--- | :--- | ---: |
|  | 12,300 | Beg Bal | 1,400 |
|  |  |  | 11,000 |


| Cost of Goods Sold |  |  |
| ---: | ---: | :--- |
| 22,900 |  |  |

The direct labor cost was:
A. $\$ 8,000$
B. $\$ 12,300$
C. $\$ 12,600$
D. $\$ 11,000$

The key is to recognize that the 7,400 debit entry in the Work in Process account represents direct materials. The journal entry would have been:

| Work in Process | 7,400 |  |
| :--- | ---: | :--- |
| Manufacturing Overhead | 2,600 |  |
| Raw Materials |  | 10,000 |

The other debit entry in the Work in Process account in the amount of $\$ 6,800$ is manufacturing overhead applied because there is a corresponding credit entry for the same amount in the account Manufacturing Overhead.

| Work in Process |  |  |  |
| :--- | :--- | :--- | :--- |
| Beg Bal | 4,600 | COGM | 26,300 |
| Direct materials | 7,400 |  |  |
| Direct labor | 8,000 |  |  |
| Manufacturing overhead applied | 6,800 |  |  |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
LearningObjective: 02-05 Use T-accountstoshowtheflow ofcostsinajob-ordercostingsystem.
15. The following partially completed T -accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | :---: |
| Beg Bal | 1,900 |  |  |
|  | 26,300 |  |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | ---: |
|  | 2,600 |  |  |
|  | 3,000 |  |  |
|  | 1,900 |  |  |


| Wages \& Salaries Payable |  |  |
| :--- | :--- | ---: |
|  | 12,300 | Beg Bal |
|  | 1,400 |  |
|  |  |  |


| Cost of Goods Sold |  |  |
| ---: | :--- | :--- |
| 22,900 |  |  |

The direct materials cost was:
A. $\$ 8,000$
B. $\$ 10,000$
C. $\$ 7,400$
D. $\$ 4,600$

The key is to recognize that the 7,400 debit entry in the Work in Process account represents direct materials. The journal entry would have been:

| Work in Process | 7,400 |  |
| :--- | :--- | :--- |
| Manufacturing Overhead | 2,600 |  |
| Raw Materials |  | 10,000 |

The direct materials is the $\$ 7,400$ debit to Work in Process.

> AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement
> Blooms: Apply

Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Level of Difficulty: 3 Hard
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
16. The following partially completed T -accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | :---: |
| Beg Bal | 1,900 |  |  |
|  | 26,300 |  |  |

The manufacturing overhead applied was:
A. $\$ 1,900$
B. $\$ 6,800$
C. $\$ 12,900$
D. \$3,000

The manufacturing overhead applied is the credit entry of $\$ 6,800$ in the Manufacturing Overhead account.

| Manufacturing Overhead |  |  |  |
| :--- | :--- | :--- | ---: |
|  | 2,600 | Manufacturing <br> overhead applied | 6,800 |
|  | 3,000 |  |  |


|  | 1,900 |  |
| :--- | :--- | :--- |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Levelof Difficulty: 2 Medium Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
11. The following partially completed T-accounts summarize transactions for Farwest Corporation during the year:

| Raw Materials |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,700 | 10,000 |
|  | 6,900 |  |


| Work in Process |  |  |
| :---: | :---: | :---: |
| Beg Bal | 4,600 | 26,300 |
|  | 7,400 |  |
|  | 8,000 |  |
|  | 6,800 |  |


| Finished Goods |  |  |  |
| :--- | ---: | ---: | :---: |
| Beg Bal | 1,900 |  |  |
|  | 26,300 |  |  |


| Manufacturing Overhead |  |  |  |
| :--- | ---: | ---: | ---: |
|  | 2,600 |  | 6,800 |
|  | 3,000 |  |  |
|  | 1,900 |  |  |


| Wages \& Salaries Payable |  |  |  |
| :--- | :--- | :--- | ---: |
|  | 12,300 | Beg Bal | 1,400 |
|  |  |  | 11,000 |


| Cost of Goods Sold |  |
| :---: | :---: |
| 22,900 |  |

The manufacturing overhead was:
A. \$1,900 underapplied
B. $\$ 700$ underapplied
C. $\$ 400$ overapplied
D. $\$ 3,200$ overapplied

| Manufacturing Overhead |  |  |
| :--- | ---: | ---: |
|  | 2,600 | 6,800 |
|  | 3,000 |  |
|  | 1,900 |  |
| Underapplied manufacturing <br> overhead | 700 |  |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Levelof Difficulty: 2 Medium
18. Dapper Corporation had only one job in process on May 1. The job had been charged with $\$ 3,400$ of direct materials, $\$ 4,640$ of direct labor, and $\$ 9,200$ of manufacturing overhead cost. The company assigns overhead cost to jobs using the predetermined overhead rate of $\$ 23.00$ per direct labor-hour.

During May, the following activity was recorded:

| Raw materials (all direct materials): |  |
| :---: | ---: |
| Beginning balance | $\$ 8,500$ |
| Purchased during the month | $\$ 42,000$ |
| Used in production | 2,200 |
| Labor: | $\$ 25,520$ |
| Direct labor-hours worked during the <br> month | $\$ 52,800$ |
| Direct labor cost incurred | $?$Actual manufacturing overhead costs <br> incurred |
| Inventories: | $\$ 32,190$ |
| Raw materials, May 30 |  |
| Work in process, May 30 |  |

Work in process inventory on May 30 contains $\$ 7,540$ of direct labor cost. Raw materials consist solely of items that are classified as direct materials.

The balance in the raw materials inventory account on May 30 was:
A. $\$ 33,500$
B. $\$ 2,000$
C. $\$ 40,000$
D. $\$ 6,500$

Raw materials used in production $=$ Beginning raw materials inventory + Purchases of raw materials - Ending raw materials inventory Ending raw materials inventory $=$ Beginning raw materials inventory + Purchases of raw materials - Raw materials used in production

Ending raw materials inventory $=\$ 8,500+\$ 42,000-\$ 48,500=\$ 2,000$

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-06 Prepare schedules of cost of goods manufactured and cost of goods sold and an income statement.
Level of Difficulty: 1 Easy
Topic Area: Underapplied and Overapplied Overhead
19. Dapper Corporation had only one job in process on May 1. The job had been charged with $\$ 3,400$ of direct materials, $\$ 4,640$ of direct labor, and $\$ 9,200$ of manufacturing overhead cost. The company assigns overhead cost to jobs using the predetermined overhead rate of $\$ 23.00$ per direct labor-hour.

During May, the following activity was recorded:

| Raw materials (all direct materials): |  |
| :---: | ---: |
| Beginning balance | $\$ 8,500$ |
| Purchased during the month | $\$ 42,000$ |
| Used in production | $\$ 48,500$ |
| Labor: | 2,200 |
| Direct labor-hours worked during the <br> month | $\$ 25,520$ |
| Direct labor cost incurred | $\$ 52,800$ |
| Actual manufacturing overhead costs <br> incurred |  |
| Inventories: | $\$ 32,190$ |
| Raw materials, May 30 |  |
| Work in process, May 30 |  |

Work in process inventory on May 30 contains $\$ 7,540$ of direct labor cost. Raw materials consist solely of items that are classified as direct materials.

The cost of goods manufactured for May was:
A. $\$ 109,670$
B. $\$ 124,620$
C. $\$ 143,300$
D. $\$ 126,820$

Beginning work in process inventory $=\$ 3,400+\$ 4,640+\$ 9,200=\$ 17,240$

| Direct materials used in production | $\$ 48,500$ |
| :--- | :--- |


| Direct labor | 25,520 |
| :--- | ---: |
| Manufacturing overhead (\$23.00 per direct <br> labor-hour $\times 2,200$ direct labor-hours) | $\underline{50,600}$ |
| Total manufacturing costs | 124,620 |
| Add: Beginning work in process | $\underline{17,240}$ |
|  | 141,860 |
| Deduct: Ending work in process | 32,190 |
| Cost of goods manufactured | $\$ 109,670$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measuremen

Blooms: Apply
Learning Objective: 02-06 Prepare schedules of cost of goods manufactured and cost of goods sold and an income statement. LevelofDifficulty: 2 Medium

Topic Area: Underapplied and Overapplied Overhead
12. Dapper Corporation had only one job in process on May 1. The job had been chargedwith $\$ 3,400$ of direct materials, $\$ 4,640$ of direct labor, and $\$ 9,200$ of manufacturing overhead cost. The company assigns overhead cost to jobs using the predetermined overhead rate of $\$ 23.00$ per direct labor-hour.

During May, the following activity was recorded:

| Raw materials (all direct materials): |  |
| :---: | ---: |
| Beginning balance | $\$ 8,500$ |
| Purchased during the month | $\$ 42,000$ |
| Used in production | $\$ 48,500$ |
| Labor: | 2,200 |
| Direct labor-hours worked during the <br> month | $\$ 25,520$ |
| Direct labor cost incurred | $\$ 52,800$ |
| Actual manufacturing overhead costs <br> incurred |  |
| Inventories: | $\$ 32,190$ |
| Raw materials, May 30 |  |
| Work in process, May 30 |  |

Work in process inventory on May 30 contains \$7,540 of direct labor cost. Raw materials consist solely of items that are classified as direct materials.

The entry to dispose of the underapplied or overapplied manufacturing overhead cost for the month would include a:
A. debit of $\$ 2,200$ to Manufacturing Overhead.
B. debit of $\$ 14,950$ to Manufacturing Overhead.
C. credit of $\$ 14,950$ to Manufacturing Overhead.
D. credit of $\$ 2,200$ to Manufacturing Overhead.

| Actual manufacturing overhead incurred |  |
| :--- | :--- |
| Manufacturing overhead applied to |  |


| Work in Process (\$23.00 <br> per direct labor-hour $\times 2,200$ <br> direct labor-hours) |  |  |
| :--- | :--- | :--- |
| Underapplied (overapplied) <br> manufacturing overhead |  | $\$ 2,200$ |
| Cost of Goods Sold | $\$ 2,200$ |  |
| Manufacturing Overhead |  | $\$ 2,200$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 2 Medium
Topic Area: Using T-accounts in Job-Order Costing
20. Messana Corporation reported the following data for the month of August:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Raw materials | $\$ 36,000$ | $\$ 24,000$ |
| Work in process | $\$ 23,000$ | $\$ 17,000$ |
| Finished goods | $\$ 37,000$ | $\$ 55,000$ |
|  |  |  |
| Additional information: | $\$ 69,000$ |  |
| Raw materials purchases | $\$ 94,000$ |  |
| Direct labor cost | $\$ 54,000$ |  |
| Manufacturing overhead cost incurred | $\$ 8,000$ |  |
| Indirect materials included in manufacturing overhead cost incurred | $\$ 56,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

The direct materials cost for August is:
A. $\$ 73,000$
B. $\$ 69,000$
C. $\$ 81,000$
D. $\$ 57,000$

| Raw materials inventory, beginning | $\$ 36,000$ |
| :--- | ---: |
| Add: Purchases of raw materials | 69,000 |
| Total raw materials available | 105,000 |
| Deduct: Raw materials inventory, ending | 24,000 |
| Raw materials used in production | 81,000 |
| Deduct: Indirect materials included in manufacturing overhead | 8,000 |
| Direct materials | $\$ 73,000$ |

Learning Objective: 02-06 Prepare schedules of cost of goods manufactured and cost of goods sold and an income statement. LevelofDifficulty: 2 Medium Topic Area: Underapplied and Overapplied Overhead
12. Messana Corporation reported the following data for the month of August:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Raw materials | $\$ 36,000$ | $\$ 24,000$ |
| Work in process | $\$ 23,000$ | $\$ 17,000$ |
| Finished goods | $\$ 37,000$ | $\$ 55,000$ |
|  |  |  |
| Additional information: | $\$ 69,000$ |  |
| Raw materials purchases | $\$ 94,000$ |  |
| Direct labor cost | $\$ 54,000$ |  |
| Manufacturing overhead cost incurred | $\$ 8,000$ |  |
| Indirect materials included in manufacturing overhead cost <br> incurred | $\$ 56,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

A. \$227,000
B. \$229,000
C. $\$ 219,000$
D. $\$ 217,000$

| Direct <br> materials: |  |  |
| :---: | :--- | :--- |
| Raw <br> materials <br> inventory, <br> beginning | $\$ 36,000$ |  |
| Add: <br> Purchases of <br> raw materials | 69,000 |  |
| Total raw <br> materials | 105,000 |  |


| available |  |  |
| :---: | :---: | :---: |
| Deduct: Raw materials inventory, ending | 24,000 |  |
| Raw materials used in production | 81,000 |  |
| Deduct: Indirect materials included in manufacturing overhead | 8,000 | \$73,000 |
| Direct labor |  | 94,000 |
| Manufacturing overhead cost applied to work in process |  | 56,000 |
| Total manufacturing costs |  | 223,000 |
| Add: <br> Beginning work in process |  | 23,000 |
|  |  | 246,000 |
| Deduct: Ending work in process |  | 17,000 |
| Cost of goods manufactured |  | \$229,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply

Levelof Difficulty: 2 Medium
Topic Area: Underapplied and Overapplied Overhead

1B. Messana Corporation reported the following data for the month of August:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Raw materials | $\$ 36,000$ | $\$ 24,000$ |
| Work in process | $\$ 23,000$ | $\$ 17,000$ |
| Finished goods | $\$ 37,000$ | $\$ 55,000$ |
|  |  |  |
| Additional information: | $\$ 69,000$ |  |
| Raw materials purchases | $\$ 94,000$ |  |
| Direct labor cost | $\$ 54,000$ |  |
| Manufacturing overhead cost incurred | $\$ 8,000$ |  |
| Indirect materials included in manufacturing overhead cost <br> incurred | $\$ 56,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

A. \$229,000
B. $\$ 211,000$
C. $\$ 209,000$
D. $\$ 247,000$

| Direct materials: |  |  |
| :--- | ---: | ---: |
| Raw materials inventory, beginning | $\$ 36,000$ |  |
| Add: Purchases of raw materials | 69,000 |  |
| Total raw materials available | 105,000 |  |
| Deduct: Raw materials inventory, ending | $\underline{24,000}$ |  |
| Raw materials used in production | 81,000 |  |
| Deduct: Indirect materials included in manufacturing overhead | $\underline{8,000}$ | $\$ 73,000$ |
| Direct labor |  | 94,000 |
| Manufacturing overhead cost applied to work in process |  | $\underline{56,000}$ |
| Total manufacturing costs |  | 223,000 |


| Add: Beginning work in process |  | 23,000 |
| :--- | ---: | ---: |
|  |  | 246,000 |
| Deduct: Ending work in process |  | 17,000 |
| Cost of goods manufactured |  | $\$ 229,000$ |

Overhead over or underapplied

| Actual manufacturing overhead incurred |  | $\$ 54,000$ |
| :--- | ---: | ---: |
| Manufacturing overhead applied to Work in Process |  | 56,000 |
| Underapplied (overapplied) manufacturing overhead |  | $(\$ 2,000)$ |
|  | $\$ 37,000$ |  |
| Finished goods inventory, beginning | $\underline{229,000}$ |  |
| Add: Cost of goods manufactured | 266,000 |  |
| Cost of goods available for sale | 55,000 |  |
| Deduct: Finished goods inventory, ending | 211,000 |  |
| Unadjusted cost of goods sold | 2,000 |  |
| Deduct: Overapplied overhead | $\$ 209,000$ |  |
| Adjusted cost of goods sold |  |  |

AACSB: Analytical Thinking AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
LearningObjective:02-06Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement. Learning Objective: 02-07 Computeunderapplied or overapplied overheadcost and preparethejournalentry to close the balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 2 Medium Topic Area: Underapplied and Overapplied Overhead Topic Area: Using T-accounts in Job-Order Costing
24. Tondre Inc. has provided the following data for the month of July:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Work in process | $\$ 23,000$ | $\$ 21,000$ |
| Finished goods | $\$ 26,000$ | $\$ 35,000$ |
|  |  |  |
| Additional information: | $\$ 56,000$ |  |
| Direct materials | $\$ 91,000$ |  |
| Direct labor cost | $\$ 58,000$ |  |
| Manufacturing overhead cost incurred | $\$ 61,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

The cost of goods manufactured for July is:
A. $\$ 210,000$
B. $\$ 205,000$
C. $\$ 208,000$
D. $\$ 207,000$

| Direct materials | $\$ 56,000$ |
| :--- | ---: |
| Direct labor | 91,000 |
| Manufacturing overhead | $\underline{61,000}$ |
| Total manufacturing costs | 208,000 |
| Add: Beginning work in process | $\underline{23,000}$ |
|  | 231,000 |
| Deduct: Ending work in process | $\underline{21,000}$ |
| Cost of goods manufactured | $\underline{\$ 210,000}$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply

LevelofDifficulty: 2 Medium
Topic Area: Underapplied and Overapplied Overhead
16. Tondre Inc. has provided the following data for the month of July:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Work in process | $\$ 23,000$ | $\$ 21,000$ |
| Finished goods | $\$ 26,000$ | $\$ 35,000$ |
|  |  |  |
| Additional information: | $\$ 56,000$ |  |
| Direct materials | $\$ 91,000$ |  |
| Direct labor cost | $\$ 58,000$ |  |
| Manufacturing overhead cost incurred | $\$ 61,000$ |  |
| Manufacturing overhead cost applied to Work in Process |  |  |

The adjusted cost of goods sold that appears on the income statement for July is:
A. $\$ 201,000$
B. $\$ 198,000$
C. $\$ 219,000$
D. $\$ 210,000$

| Direct materials | $\$ 56,000$ |
| :--- | ---: |
| Direct labor | 91,000 |
| Manufacturing overhead | $\mathbf{6 1 , 0 0 0}$ |
| Total manufacturing costs | 208,000 |
| Add: Beginning work in process | $\underline{23,000}$ |
|  | 231,000 |
| Deduct: Ending work in process | 21,000 |
| Cost of goods manufactured | $\underline{\$ 210,000}$ |

Overhead over or underapplied

| Actual manufacturing overhead incurred |  | $\$ 58,000$ |
| :--- | :--- | ---: |
| Manufacturing overhead applied to Work in Process |  | $\underline{61,000}$ |
| Underapplied (overapplied) manufacturing overhead |  | $\underline{(\$ 3,000)}$ |


|  |  |  |
| :--- | ---: | :--- |
| Finished goods inventory, beginning | $\$ 26,000$ |  |
| Add: Cost of goods manufactured | 210,000 |  |
| Cost of goods available for sale | 236,000 |  |
| Deduct: Finished goods inventory, ending | 35,000 |  |
| Unadjusted cost of goods sold | 201,000 |  |
| Deduct: Overapplied overhead | 3,000 |  |
| Adjusted cost of goods sold | $\$ 198,000$ |  |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
LearningObjective:02-06Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement. Learning Objective: 02-07 Computeunderapplied or overapplied overheadcost and preparethejournalentry to close the balance in Manufacturing Overhead to the appropriate accounts.

Levelof Difficulty: 2 Medium
Topic Area: Underapplied and Overapplied Overhead Topic Area: Using T-accounts in Job-Order Costing

## Essay Questions

ข6. Christofferse Corporation bases its predetermined overhead rate on the estimated machinehours for the upcoming year. Data for the most recently completed year appear below:

| Estimates made at the beginning of the year: |  |  |
| :--- | ---: | :--- |
| Estimated machine-hours | 38,000 |  |
| Estimated variable manufacturing overhead | $\$ 3.33$ | per machine-hour |
| Estimated total fixed manufacturing overhead | $\$ 548,720$ |  |
| Actual machine-hours for the year | 33,700 |  |

Required:
Compute the company's predetermined overhead rate for the recently completed year.

Estimated total manufacturing overhead $=\$ 548,720+(\$ 3.33$ per machine-hour $\times 38,000$ machine-hours) $=\$ 675,260$
Predetermined overhead rate $=\$ 675,260 \div 38,000$ machine-hours $=\$ 17.77$ permachine-hour

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Level of Difficulty: 1 Easy
TopicArea:JobOrderCosting-The Flowof Costs
12. Cacioppo Corporation bases its predetermined overhead rate on the estimated labor-hours for the upcoming year. At the beginning of the most recently completed year, the company estimated the labor-hours for the upcoming year at 66,000 labor-hours. The estimated variable manufacturing overhead was $\$ 7.45$ per labor-hour and the estimated total fixed manufacturing overhead was $\$ 1,760,220$. The actual labor-hours for the year turned out to be 63,800 laborhours.

Required:
Compute the company's predetermined overhead rate for the recently completed year.

Estimated total manufacturing overhead $=\$ 1,760,220+(\$ 7.45$ per machine-hour $\times 66,000$
machine-hours) $=\$ 2,251,920$
Predetermined overhead rate $=\$ 2,251,920 \div 66,000$ machine-hours $=\$ 34.12$ per labor-hour

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Level of Difficulty: 1 Easy
TopicArea:JobOrderCosting-The Flowof Costs
18. Sigel Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. At the beginning of the most recently completed year, the company estimated the machine-hours for the upcoming year at 52,000 machine-hours. The estimated variable manufacturing overhead was $\$ 3.40$ per machine-hour and the estimated total fixed manufacturing overhead was $\$ 624,520$.

Required:
Compute the company's predetermined overhead rate.

Estimated total manufacturing overhead $=\$ 624,520+(\$ 3.40$ per machine-hour $\times 52,000$
machine-hours) = \$801,320
Predetermined overhead rate $=\$ 801,320 \div 52,000$ machine-hours $=\$ 15.41$ per machine-hour

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Level of Difficulty: 1 Easy
TopicArea:JobOrderCosting-The Flowof Costs
10. Huckeby Corporation bases its predetermined overhead rate on the estimated machine-hours for the upcoming year. Data for the upcoming year appear below:

| Estimated machine-hours | 24,000 |  |
| :--- | ---: | :--- |
| Estimated variable manufacturing overhead | $\$ 3.89$ | per machine-hour |
| Estimated total fixed manufacturing overhead | $\$ 535,200$ |  |

Required:
Compute the company's predetermined overhead rate.

Estimated total manufacturing overhead $=\$ 535,200+(\$ 3.89$ per machine-hour $\times$ 24,000 machine-hours) $=\$ 628,560$

Predetermined overhead rate $=\$ 628,560 \div 24,000$ machine-hours $=\$ 26.19$ permachine-hour

Quark Spy Equipment manufactures espionage equipment. Quark uses a job-order costing system and applies overhead to jobs on the basis of direct labor-hours. For the current year, Quark estimated that it would work 100,000 direct labor-hours and incur $\$ 20,000,000$ of manufacturing overhead cost. The following summarized information relates to January of the current year. The raw materials purchased include both direct and indirect materials.

| Raw materials purchased on account | $\$ 1,412,000$ |
| :--- | ---: |
| Direct materials requisitioned into production | $\$ 1,299,500$ |
| Indirect materials requisitioned into production | $\$ 98,000$ |
| Direct labor cost (7,900 hours @ \$40 per hour) | $\$ 316,000$ |
| Indirect labor cost (10,200 hours @ \$16 per hour) | $\$ 163,200$ |
| Depreciation on the factory building | $\$ 190,500$ |
| Depreciation on the factory equipment | $\$ 890,700$ |
| Utilities for the factory | $\$ 79,600$ |
| Cost of jobs finished | $\$ 2,494,200$ |
| Cost of jobs sold | $\$ 2,380,000$ |
| Sales (all on account) | $\$ 3,570,000$ |

Required:
Prepare journal entries to record Quark's transactions for the month of January. Do not close out the manufacturing overhead account.

| Raw Materials | $1,412,000$ |  |
| :---: | ---: | ---: |
| Accounts Payable |  | $1,412,000$ |
| Work in Process | $1,299,500$ |  |
| Raw Materials |  | $1,299,500$ |
| Manufacturing Overhead | 98,000 |  |
| Raw Materials |  | 98,000 |
| Work in Process | 316,000 |  |
| Salaries and Wages Payable |  | 316,000 |

Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base
Predetermined overhead rate $=\$ 20,000,000 \div 100,000$ direct labor-hours $=\$ 200$ per direct labor-hour

Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred Overhead applied $=\$ 200$ per direct labor-hour $\times 7,900$ direct labor-hours $=\$ 1,580,000$

| Work in Process | $1,580,000$ |  |
| :---: | ---: | ---: |
| Manufacturing Overhead |  | $1,580,000$ |
| Manufacturing Overhead | 163,200 |  |
| Salaries and Wages Payable |  | 163,200 |
| Manufacturing Overhead | $1,160,800$ |  |
| Accumulated Depreciation, Building |  | 190,500 |
| Accumulated Depreciation, Equipment |  | 890,700 |
| Utilities Payable (or Cash) |  | 79,600 |
| Finished Goods | $2,494,200$ |  |
| Work in Process | $2,380,000$ |  |
| Cost of Goods Sold |  | $2,380,000$ |
| Finished Goods | $3,570,000$ |  |
| Accounts Receivable |  | $3,570,000$ |
| Sales |  |  |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Level of Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead

Topic Area: Computing Predetermined Overhead Rates Topic Area: Job Order Costing-The Flowof Costs
13. Allenton Company is a manufacturing firm that uses job-order costing. At the beginning of the year, the company's inventory balances were as follows:

| Raw materials | $\$ 26,000$ |
| :--- | :---: |
| Work in process | $\$ 47,000$ |
| Finished goods | $\$ 133,000$ |

The company applies overhead to jobs using a predetermined overhead rate based on machine-hours. At the beginning of the year, the company estimated that it would work 31,000 machine-hours and incur $\$ 248,000$ in manufacturing overhead cost. The following transactions were recorded for the year:
a. Raw materials were purchased, $\$ 411,000$.
b. Raw materials were requisitioned for use in production, \$409,000 (\$388,000 directand \$21,000 indirect).
c. The following employee costs were incurred: direct labor, $\$ 145,000$; indirect labor, $\$ 61,000$; and administrative salaries, \$190,000.
d. Selling costs, \$148,000.
e. Factory utility costs, \$12,000.
f. Depreciation for the year was $\$ 121,000$ of which $\$ 114,000$ is related to factory operations and $\$ 7,000$ is related to selling, general, and administrative activities.
g. Manufacturing overhead was applied to jobs. The actual level of activity for the year was 29,000 machine-hours.
h. The cost of goods manufactured for the year was \$783,000.
i. Sales for the year totaled $\$ 1,107,000$ and the costs on the job cost sheets of the goods that were sold totaled \$768,000.
j. The balance in the Manufacturing Overhead account was closed out to Cost of Goods Sold.

Required:
Prepare the appropriate journal entry for each of the items above (a. through j.). You can assume that all transactions with employees, customers, and suppliers were conducted in cash.

| a. | Raw Materials Inventory | 411,000 |  |
| :--- | :--- | :--- | :--- |


|  | Cash |  | 411,000 |
| :---: | :---: | ---: | ---: |
|  |  |  |  |
| b. | Work in Process Inventory | 388,000 |  |
|  | Manufacturing Overhead | 21,000 |  |
|  | Raw Materials Inventory |  | 409,000 |
|  |  |  |  |
| c. | Work in Process Inventory | 145,000 |  |
|  | Manufacturing Overhead | 61,000 |  |
|  | Administrative Salary Expense | 190,000 |  |
|  | Cash |  | 396,000 |
|  |  |  |  |
| d. | Selling Expenses | 148,000 |  |
|  | Cash |  | 148,000 |
|  |  |  |  |
| e. | Manufacturing Overhead | 12,000 |  |
|  | Cash | 12,000 |  |
|  |  |  | 121,000 |
| f. | Manufacturing Overhead | 114,000 |  |
|  | Depreciation Expense | Accumulated Depreciation |  |
|  |  |  |  |

Predetermined overhead rate $=$ Estimated total manufacturing overhead cost $\div$ Estimated total amount of the allocation base

Predetermined overhead rate $=\$ 248,000 \div 31,000$ machine-hours $=\$ 8$ per machine-hour

Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred Overhead applied $=\$ 8$ per machine-hour $\times 29,000$ machine-hours $=\$ 232,000$

| g. | Work in Process | 232,000 |  |
| :---: | :---: | :---: | :---: |
|  | Manufacturing Overhead |  | 232,000 |
|  |  |  |  |
| h. | Finished Goods | 783,000 |  |


|  | Work in Process |  | 783,000 |
| :---: | :---: | :---: | :---: |
| i. | Cash | 1,107,000 |  |
|  | Sales |  | 1,107,000 |
|  | Cost of Goods Sold | 768,000 |  |
|  | Finished Goods |  | 768,000 |
|  | Manufacturing Overhead |  |  |
| (b) | 21,000 | (g) | 232,000 |
| (c) | 61,000 |  |  |
| (e) | 12,000 |  |  |
| (f) | 114,000 |  |  |
|  | 208,000 |  | 232,000 |
|  |  |  | 24,000 |
| j. | Manufacturing Overhead | 24,000 |  |
|  | Cost of Goods Sold |  | 24,000 |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts. LevelofDifficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead Topic Area: Computing Predetermined Overhead Rates Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing
Q. Bakerston Company is a manufacturing firm that uses job-order costing. The company's inventory balances were as follows at the beginning and end of theyear:

|  | Beginning Balance | Ending Balance |
| :--- | ---: | ---: |
| Raw materials | $\$ 14,000$ | $\$ 22,000$ |
| Work in process | $\$ 27,000$ | $\$ 9,000$ |
| Finished goods | $\$ 62,000$ | $\$ 77,000$ |

The company applies overhead to jobs using a predetermined overhead rate based on machine-hours. At the beginning of the year, the company estimated that it would work 33,000 machine-hours and incur $\$ 231,000$ in manufacturing overhead cost. The following transactions were recorded for the year:

- Raw materials were purchased, \$315,000.
- Raw materials were requisitioned for use in production, $\$ 307,000$ ( $\$ 281,000$ directand \$26,000 indirect).
- The following employee costs were incurred: direct labor, \$377,000; indirect labor, \$96,000; and administrative salaries, $\$ 172,000$.
- Selling costs, \$147,000.
- Factory utility costs, \$10,000.
- Depreciation for the year was $\$ 127,000$ of which $\$ 120,000$ is related to factory operations and $\$ 7,000$ is related to selling, general, and administrative activities.
- Manufacturing overhead wasapplied to jobs. The actual level of activity for the year was 34,000 machine-hours.
- Sales for the year totaled $\$ 1,253,000$.

Required:
a. Prepare a schedule of cost of goods manufactured.
b. Was the overhead underapplied or overapplied? By how much?
c. Prepare an income statement for the year. The company closes any underapplied or overapplied overhead to Cost of Goods Sold.
a. Schedule of cost of goods manufactured

| Estimated total manufacturing overhead (a) | $\$ 231,000$ |
| :--- | ---: |
| Estimated total machine-hours (b) | 33,000 |
| Predetermined overhead rate (a) $\div$ (b) | $\$ 7.00$ |
| Actual total machine-hours (a) | 34,000 |
| Predetermined overhead rate (b) | $\$ 7.00$ |
| Overhead applied (a) $\times(\mathrm{b})$ | $\$ 238,000$ |

Cost of Goods Manufactured

| Direct materials: |  |  |
| :--- | :--- | :--- |
| Beginning raw materials inventory | $\$ 14,000$ |  |
| Add: Purchases of raw materials | 315,000 |  |
| Total raw materials available | 329,000 |  |
| Deduct: Ending raw materials inventory | 22,000 |  |
| Raw materials used in production | 307,000 |  |
| Deduct: Indirect materials included in manufacturing overhead | 26,000 | $\$ 281,000$ |
| Direct labor |  |  |
| Manufacturing overhead cost applied to work in process |  |  |
| Total manufacturing costs | 377,000 |  |


| Add: Beginning work in process inventory |  | $\underline{27,000}$ |
| :--- | :--- | :--- |
|  |  | 923,000 |
| Deduct: Ending work in process inventory |  | $-9,000$ |
| Cost of goods manufactured |  | $\$ 914,000$ |

b. Overhead underapplied or overapplied

| Actual manufacturing overhead cost <br> incurred: |  |
| :--- | ---: |
| Indirect materials | $\$ 26,000$ |
| Indirect labor | 96,000 |
| Factory utilities | $\underline{120,000}$ |
| Factory depreciation | 252,000 |
| Manufacturing overhead cost incurred | $\underline{238,000}$ |
| Manufacturing overhead applied | $\$ 14,000$ |
| Underapplied overhead |  |

c. Income Statement

| Cost of Goods Sold: |  |
| :--- | ---: |
| Beginning finished goods inventory | $\$ 62,000$ |
| Add: Cost of goods manufactured | $\underline{914,000}$ |
| Cost of goods available for sale | 976,000 |
| Deduct: Ending finished goods inventory | $\underline{77,000}$ |


| Unadjusted cost of goods sold | 899,000 |
| :--- | ---: |
| Add: Underapplied overhead | $\underline{14,000}$ |
| Adjusted cost of goods sold | $\$ 913,000$ |

Income Statement:

| Sales |  | $\$ 1,253,000$ |
| :--- | ---: | ---: |
| Cost of goods sold (adjusted) |  | 913,000 |
| Gross margin |  | 340,000 |
| Selling and administrative <br> expenses: |  |  |
| Administrative salaries | $\$ 172,000$ |  |
| Selling costs | 147,000 |  |
| Depreciation | 7,000 | $\underline{326,000}$ |
| Net operating income |  | $\$ 14,000$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measuremen
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate.
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. LearningObjective: 02-06 Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement. Learning Objective: 02-07 Computeunderapplied or overappliedoverheadcost and preparethejournalentry to closethe balance in Manufacturing Overhead to the appropriate accounts. Levelof Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flowof Costs Topic Area: Underapplied and Overapplied Overhead Topic Area: Using T-accounts in Job-Order Costing
13. Parker Company uses a job-order costing system and applies manufacturing overhead to jobs using a predetermined overhead rate based on direct labor-hours. Last year manufacturing overhead and direct labor-hours were estimated at $\$ 50,000$ and 20,000 hours, respectively, for the year. In June, Job \#461 was completed. Materials costs on the job totaled \$4,000 and labor costs totaled $\$ 1,500$ at $\$ 5$ per hour. At the end of the year, it was determined that the company worked 24,000 direct labor-hours for the year and incurred $\$ 54,000$ in actual manufacturing overhead costs.

Required:
a. Job \#461 contained 100 units. Determine the unit product cost that would appear on the job cost sheet.
b. Determine the underapplied or overapplied overhead for the year.
a.

| Direct materials | $\$ 4,000$ |
| :--- | ---: |
| Direct labor | 1,500 |
| Manufacturing overhead (300 DLHs* $\times \$ 2.50$ per DLH |  |
| Total product cost | 750 |
| Unit product cost $(\$ 6,250 \div 100$ units) | $\$ 6,250$ |

* Actual direct labor-hours $=\$ 1,500 \div \$ 5.00$ per DLH $=300$ DLHs
**Predetermined overhead rate $=\$ 50,000 \div 20,000$ DLHs $=\$ 2.50$ per DLH
b.

| Actual manufacturing overhead incurred | $\$ 54,000$ |
| :--- | ---: |
| Manufacturing overhead applied to Work in Process (\$2.50 per <br> DLH $\times 24,000$ DLHs) | 60,000 |
| Underapplied (overapplied) manufacturing overhead | $\$(6,000$ |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the
balance in Manufacturing Overhead to the appropriate accounts.
Level of Difficulty: 2 Medium Topic Area: Applying Manufacturing Overhead Topic Area: Job Order Costing-The Flow of Costs Topic Area: Using T-accounts in Job-Order Costing
84. Hacken Company has a job-order costing system. The company applies manufacturing overhead to jobs using a predetermined overhead rate based on direct labor cost. The information below has been taken from the cost records of Hacken Company for the past year:

| Direct materials used in production | $\$ 1,250$ |
| :--- | ---: |
| Total manufacturing costs charged to production during the year (includes direct <br> materials, direct labor, and applied manufacturing overhead) |  |
| Manufacturing overhead applied | $\$ 6,050$ |
| Selling and administrative expenses | $\$ 2,800$ |
| Inventories: | $\$ 1,000$ |
| Direct materials, January 1 | $\$ 130$ |
| Direct materials, December 31 | $\$ 80$ |
| Work in process, January 1 | $\$ 250$ |
| Work in process, December 31 | $\$ 400$ |
| Finished goods, January 1 | $\$ 300$ |
| Finished goods, December 31 | $\$ 200$ |

## Required:

a. Compute the cost of direct materials purchased during the year.
b. Compute the predetermined overhead rate that was used during the pastyear.
c. Compute the Cost of Goods Manufactured for the pastyear.
d. Compute the unadjusted Cost of Goods Sold for the pastyear.
a. Direct materials used in production $=$ Beginning direct materials inventory + Purchases of direct materials - Ending direct materials inventory
Purchases of direct materials = Direct materials used in production + Ending direct materials inventory - Beginning direct materials inventory
Purchases of direct materials $=\$ 1,250+\$ 80-\$ 130=\$ 1,200$
b. Total manufacturing costs $=$ Direct materials + Direct labor + Manufacturing overhead applied

$$
\$ 6,050=\$ 1,250 \text { + Direct labor + \$2,800 }
$$

Direct labor $=\$ 6,050-\$ 1,250-\$ 2,800=\$ 2,000$

Overhead applied = Predetermined overhead rate $\times$ Amount of the allocation base incurred $\$ 2,800=$ Predetermined overhead rate $\times \$ 2,000$
Predetermined overhead rate $=\$ 2,800 \div \$ 2,000=140 \%$ of direct labor cost
c. Cost of Goods Manufactured

| Total manufacturing costs | $\$ 6,050$ |
| :--- | ---: |
| Add: Beginning work in process inventory | $\underline{250}$ |
|  | $\underline{6,300}$ |
| Deduct: Ending work in process inventory | $\underline{400}$ |
| Cost of goods manufactured | $\$ 5,900$ |

d. Cost of Goods Sold

| Beginning finished goods inventory | $\$ 300$ |
| :--- | ---: |
| Add: Cost of goods manufactured | 5,900 |
| Cost of goods available for sale | 6,200 |
| Deduct: Ending finished goods inventory | $\underline{200}$ |
| Unadjusted cost of goods sold | $\underline{\$ 6,000}$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-01 Compute a predetermined overhead rate. Learning Objective: 02-06 Prepare schedules of cost of goods manufactured and cost of goods sold and an income statement. Level of Difficulty: 3 Hard Topic Area: Job Order Costing-The Flow of Costs Topic Area: Underapplied and Overapplied Overhead
135. Job 231 was recently completed. The following data have been recorded on its job cost sheet:

| Direct materials | $\$ 52,260$ |  |
| :--- | ---: | :--- |
| Direct labor-hours | 1,326 | labor-hours |
| Direct labor wage rate | $\$ 10$ | per labor-hour |
| Machine-hours | 819 | machine-hours |
| Number of units completed | 3,900 | units |

The company applies manufacturing overhead on the basis of machine-hours. The predetermined overhead rate is $\$ 11$ per machine-hour.

Required:
Compute the unit product cost that would appear on the job cost sheet for this job.

Cost Summary

| Direct materials | $\$ 52,260$ |
| :--- | ---: |
| Direct labor (\$10 per DLH $\times 1,326 \mathrm{DLHs})$ | 13,260 |
| Manufacturing overhead $(\$ 11$ per MH $\times 819 \mathrm{MHs}$ ) | 9,009 |
| Total product cost | $\$ 74,529$ |
| Unit product cost | $\$ 19.11$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-03 Compute the total cost and average cost per unit of a job.

Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead
Topic Area: Computation of Unit Costs
136. Job 231 was recently completed. The following data have been recorded on its job cost sheet:

| Direct materials | $\$ 59,400$ |  |
| :--- | ---: | :--- |
| Direct labor-hours | 1,254 | DLHs |
| Direct labor wage rate | $\$ 11$ | per DLH |
| Number of units completed | 3,300 | units |

The company applies manufacturing overhead on the basis of direct labor-hours. The predetermined overhead rate is $\$ 37$ per direct labor-hour.

Required:
Compute the unit product cost that would appear on the job cost sheet for this job.

Cost Summary

| Direct materials | $\$ 59,400$ |
| :--- | ---: |
| Direct labor $\$ 11$ per DLH $\times 1,254$ DLHs | 13,794 |
| Manufacturing overhead $\$ 37$ per DLH $\times 1,254$ DLHs | 46,398 |
| Total product cost | $\$ 119,592$ |
| Unit product cost | $\$ 36,24$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-03 Compute the total cost and average cost per unit of a job. Level of Difficulty: 1 Easy
Topic Area: Applying Manufacturing Overhead
Topic Area: Computation of Unit Costs
87. The Commonwealth Company uses a job-order costing system and applies manufacturing overhead cost to jobs using a predetermined overhead rate based on the cost of materials used in production. At the beginning of the year, the following estimates were made as a basis for computing the predetermined overhead rate: manufacturing overhead cost, $\$ 186,000$; direct materials cost, $\$ 155,000$. The following transactions took place during the year (all purchases and services were acquired on account):
a. Raw materials purchased, \$96,000.
b. Raw materials requisitioned for use in production (all direct materials), $\$ 88,000$.
c. Utility bills incurred in the factory, $\$ 17,000$.
d. Costs for salaries and wages incurred as follows:

| Direct labor | $\$ 174,000$ |
| :--- | ---: |
| Indirect labor | $\$ 70,000$ |
| Selling and administrative salaries | $\$ 124,000$ |

e. Maintenance costs incurred in the factory, \$12,000.
f. Advertising costs incurred, \$98,000.
g. Depreciation recorded for the year, $\$ 75,000$ ( 75 percent relates to factory assets and the remainder relates to selling, general, and administrative assets).
h. Rental cost incurred on buildings, $\$ 80,000$ ( 80 percent of the space is occupied by the factory, and 20 percent is occupied by sales and administration).
i. Miscellaneous selling, general, and administrative costs incurred, $\$ 12,000$.
j. Manufacturing overhead cost was applied to jobs.
k. Cost of goods manufactured for the year, $\$ 480,000$.
I. Sales for the year (all on account) totaled $\$ 900,000$. These goods cost $\$ 550,000$ to manufacture.

Required:
Prepare journal entries to record the information above. Key your entries by the letters a through I.

| a. | Raw Materials | 96,000 |
| :--- | :--- | ---: |


|  | Accounts Payable |  | 96,00 |
| :---: | :---: | :---: | :---: |
| b. | Work in Process | 88,000 |  |
|  | Raw Materials |  | 88,000 |
| c. | Manufacturing Overhead | 17,000 |  |
|  | Accounts Payable |  | 17,000 |
| d. | Work in Process | 174,000 |  |
|  | Manufacturing Overhead | 70,000 |  |
|  | Salaries Expense | 124,000 |  |
|  | Salaries and Wages Payable |  | 368,000 |
| e. | Manufacturing Overhead | 12,000 |  |
|  | Accounts Payable |  | 12,000 |
| f. | Advertising Expense | 98,000 |  |
|  | Accounts Payable |  | 98,000 |
| g. | Manufacturing Overhead | 56,25 |  |
|  | Depreciation Expense | 18,75 |  |
|  | Accumulated Depreciation |  | 75,000 |
| h. | Manufacturing Overhead | 64,000 |  |
|  | Rent Expense | 16,000 |  |
|  | Accounts Payable |  | 80,000 |
| i. | Miscellaneous Expense | 12,000 |  |
|  | Accounts Payable |  | 12,000 |
| j. | Work in Process | 105,600 |  |
|  | Manufacturing Overhead |  | 105,600 |
|  | [(186,000/155,000) $\times 88,000]$ |  |  |
| k. | Finished Goods | 480,000 |  |
|  | Work in Process |  | 480,000 |
| 1. | Accounts Receivable | 900,000 |  |
|  | Sales |  | 900,000 |


|  |  |  |  |
| :--- | :--- | ---: | ---: |
|  | Cost of Goods Sold | 550,000 |  |
|  | Finished Goods |  | 550,000 |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate. Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to recordcosts
Level of Difficulty: 2 Medium
Topic Area: Applying Manufacturing Overhead
Topic Area: Computing Predetermined Overhead Rates

Maggie Manufacturing Company applies manufacturing overhead to jobs using a predetermined overhead rate of $75 \%$ of direct labor cost. Any underapplied or overapplied overhead is closed to Cost of Goods Sold at the end of the month. During August, the following transactions were recorded by the company:

| Raw materials (all direct materials): |  |
| :--- | ---: |
| Purchased during the month | $\$ 30,000$ |
| Used in production | $\$ 34,000$ |
| Labor: | 4,000 |
| Direct labor-hours worked during the <br> month | $\$ 32,000$ |
| Direct labor costs incurred | $\$ 8,000$ |
| Indirect labor costs incurred | $\$ 22,000$ |
| Manufacturing overhead costs incurred <br> (total) | $\$ 10,000$ |
| Inventories: | $\$ 8,400$ |
| Raw materials (all direct) August 31 | $\$ 16,000$ |
| Work in process, August 1 |  |
| Work in process, August 31 |  |

Required:
Determine the following:
a. The August 1 balance of Raw Materials.
b. The amount of manufacturing overhead applied to jobs in August.
c. The Cost of Goods Manufactured for August.
d. The overapplied or underapplied manufacturing overhead for the month. Label this amount appropriately.
a. Raw materials used in production $=$ Beginning raw materials inventory + Purchases of raw materials - Ending raw materials inventory
Beginning raw materials inventory = Raw materials used in production - Purchases of raw materials + Ending raw materials inventory

Beginning raw materials inventory $=\$ 34,000-\$ 30,000+\$ 10,000=\$ 14,000$
b. Overhead applied $=$ Predetermined overhead rate $\times$ Amount of the allocation base incurred $=0.75 \times \$ 32,000=\$ 24,000$
c. Cost of Goods Manufactured

| Direct materials | $\$ 34,000$ |
| :--- | ---: |
| Direct labor | 32,000 |
| Manufacturing overhead cost applied to <br> work in process | 24,000 |
| Total manufacturing costs | 90,000 |
| Add: Beginning work in process inventory | 8,400 |
|  | 98,400 |
| Deduct: Ending work in process inventory | $\underline{16,000}$ |
| Cost of goods manufactured | $\$ 82,400$ |

d. Overhead over or underapplied

| Actual <br> manufacturing <br> overhead incurred | $\$ 22,000$ |  |
| :--- | :--- | :--- |
| Manufacturing <br> overhead applied <br> to Work in <br> Process | $\underline{24,000}$ |  |
| Underapplied <br> (overapplied) <br> manufacturing <br> overhead | $\underline{(\$ 2,000)}$ | Overapplied |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-02 Apply overhead cost to jobs using a predetermined overhead rate.
LearningObjective: 02-06
Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the

Topic Area: Applying Manufacturing Overhead Topic Area: Underapplied and Overapplied Overhead Topic Area: Using T-accounts in Job-Order Costing
19. During December, Mccroskey Corporation incurred $\$ 66,000$ of actual Manufacturing Overhead costs. During the same period, the Manufacturing Overhead applied to Work in Process was \$69,000.

Required:
Prepare journal entries to record the incurrence of manufacturing overhead and the application of manufacturing overhead to Work in Process.

| Manufacturing Overhead | 66,000 |  |
| :---: | ---: | ---: |
| Various accounts |  | 66,000 |
|  | 69,000 |  |
| Work in Process |  |  |
| Manufacturing Overhead |  | 69,000 |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
10. During December, Deller Corporation purchased $\$ 79,000$ of raw materials on credit to add to its raw materials inventory. A total of $\$ 68,000$ of raw materials was requisitioned from the storeroom for use in production. These requisitioned raw materials included \$4,000 of indirect materials.

Required:
Prepare journal entries to record the purchase of materials and their use in production.

| Raw Materials | 79,000 |  |
| :---: | ---: | ---: |
| Accounts Payable |  | 79,000 |
|  | 64,000 |  |
| Work in Process | 4,000 |  |
| Manufacturing Overhead |  | 68,000 |
| Raw Materials |  |  |

AACSB: Analytical Thinking
AICPA: BB Critical Thinking
AICPA: FN Measurement
Blooms: Apply
Learning Objective: 02-04 Understand the flow of costs in a job-order costing system and prepare appropriate journal entries to
recordcosts
Levelof Difficulty: 1 Easy
Topic Area: Computing Predetermined Overhead Rates
4. Alden Company recorded the following transactions for the just completed month. The company had no beginning inventories.
(a) $\$ 72,000$ in raw materials were purchased for cash.
(b) $\$ 67,000$ in raw materials were requisitioned for use in production. Of this amount, $\$ 56,000$ was for direct materials and the remainder was for indirectmaterials.
(c) Total labor wages of $\$ 112,000$ were incurred and paid in cash. Of this amount, $\$ 94,000$ was for direct labor and $\$ 18,000$ was for indirect labor.
(d) Additional manufacturing overhead costs of $\$ 108,000$ were incurred and paid incash.
(e) Manufacturing overhead costs of $\$ 130,000$ were applied to jobs using the company's predetermined overhead rate.
(f) All of the jobs worked on during the month were completed and shipped tocustomers.
(g) The underapplied or overapplied overhead for the month was closed out to Cost of Goods Sold.

Required:
a. Post the above transactions to T -accounts.
b. Determine the cost of goods manufactured.
c. Determine the cost of goods sold (after closing Manufacturing Overhead).


b. The cost of goods manufactured is $\$ 280,000$, which is the total amount transferred from work in process to finished goods.
c. The cost of goods sold is $\$ 287,000$.

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. LearningObjective:02-06Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement. Learning

Objective: 02-07 Computeunderapplied or overappliedoverheadcost and preparethejournalentry to closethe balance in Manufacturing Overhead to the appropriate accounts.

Levelof Difficulty: 2 Medium
4. Schoff Corporation has provided the following data for the most recentmonth:

| Raw materials, beginning balance | $\$ 12,000$ |
| :--- | :---: |
| Work in process, beginning balance | $\$ 24,000$ |
| Finished Goods, beginning balance | $\$ 54,000$ |
|  |  |
| Transactions: | $\$ 77,000$ |
| (1) Raw materials purchases | $\$ 80,000$ |
| (2) Raw materials used in production (all direct materials) | $\$ 74,000$ |
| (3) Direct labor | $\$ 84,000$ |
| (4) Manufacturing overhead costs incurred | $\$ 78,000$ |
| (5) Manufacturing overhead applied | $\$ 244,000$ |
| (6) Cost of units completed and transferred from Work in Process to Finished Goods |  |
| (7) Any overapplied or underapplied manufacturing overhead is closed to Cost of Goods | $?$ |
| Sold | $\$ 278,000$ |
| (8) Finished goods are sold |  |

Required:
Prepare T-accounts for Raw Materials, Work in Process, Finished Goods, Manufacturing Overhead, and Cost of Goods Sold. Record the beginning balances and each of the transactions listed above. Finally, determine the ending balances.

| Raw Materials |  |  |  |
| :--- | ---: | ---: | ---: |
| Bal | 12,000 | (2) | 80,000 |
| (1) | 77,000 |  |  |
| Bal | 9,000 |  |  |
|  |  |  |  |
| Work in Process |  |  |  |
| Bal |  |  |  |
| 24,000 |  |  | (6) |


| (2) | 80,000 |  |
| :---: | :---: | :---: |
| (3) | 74,000 |  |
| (5) | 78,000 |  |
| Bal | 12,000 |  |
| Finished Goods |  |  |
| Bal | 54,000 | 278,000 |
| (6) | 244,000 |  |
| Bal | 20,000 |  |
| Manufacturing Overhead |  |  |
| (4) | 84,000 | 78,000 |
|  | 6,000 | 6,000 |
|  | 0 |  |
| Cost of Goods Sold |  |  |
| (7) | 6,000 |  |
| (8) | 278,000 |  |
|  | 284,000 |  |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts

Levelof Difficulty: 2 Medium
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
13. During January, Shanker Corporation recorded the following:

| Raw materials, beginning balance | $\$ 10,000$ |
| :--- | ---: |
| Work in process, beginning balance | $\$ 24,000$ |
| Finished Goods, beginning balance | $\$ 53,000$ |


| Transactions: |  |
| :---: | :---: |
| (1) Raw materials purchases | $\$ 63,000$ |
| (2) Raw materials used in production <br> (all direct materials) | $\$ 62,000$ |
| (3) Direct labor | $\$ 75,000$ |
| (4) Manufacturing overhead costs <br> incurred | $\$ 71,000$ |
| (5) Manufacturing overhead applied | $\$ 66,000$ |
| (6) Cost of units completed and <br> transferred from Work in Process to <br> Finished Goods | $\$ 195,000$ |
| (7) Any overapplied or underapplied <br> manufacturing overhead is closed to Cost <br> of Goods Sold | $?$ |
| (8) Finished goods are sold | $\$ 222,000$ |

Required:
Prepare T-accounts for Raw Materials, Work in Process, Finished Goods, and Manufacturing Overhead, and Cost of Goods Sold. Record the beginning balances and each of the transactions listed above. Finally, determine the ending balances.

| Raw Materials |  |  |  |
| :--- | :---: | :---: | :---: |
| Bal | 10,000 |  |  |
| (1) | 63,000 | (2) | 62,000 |
| Bal | 11,000 |  |  |



AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts Levelof Difficulty: 2 Medium

Sowers Inc. has provided the following data for October:

| Raw materials, beginning balance | $\$ 11,000$ |
| :--- | ---: |
| Work in process, beginning balance | $\$ 29,000$ |
| Finished Goods, beginning balance | $\$ 58,000$ |


| Transactions: |  |
| :--- | :---: |
| (1) Raw materials purchases | $\$ 67,000$ |
| (2) Raw materials used in production (all direct materials) | $\$ 68,000$ |
| (3) Direct labor | $\$ 52,000$ |
| (4) Manufacturing overhead costs incurred | $\$ 78,000$ |
| (5) Manufacturing overhead applied | $\$ 68,000$ |
| (6) Cost of units completed and transferred from Work in Process to Finished Goods | $\$ 191,000$ |
| (7) Any overapplied or underapplied manufacturing overhead is closed to Cost of Goods Sold |  |
| (8) Finished goods are sold | $\$ 244,000$ |

Required:

Prepare T-accounts for Raw Materials, Work in Process, Finished Goods, and Manufacturing Overhead, and Cost of Goods Sold. Record the beginning balances and each of the transactions listed above. Finally, determine the ending balances.

| Raw Materials |  |  |  |
| :--- | :---: | :---: | :---: |
| Bal | 11,000 | (2) | 68,000 |
| $(1)$ | 67,000 |  |  |
| Bal | 10,000 |  |  |
|  |  |  |  |
| Work in Process |  |  |  |
|  |  |  |  |


| Bal | 29,000 (6) | 191,000 |
| :---: | :---: | :---: |
| (2) | 68,000 |  |
| (3) | 52,000 |  |
| (5) | 68,000 |  |
| Bal | 26,000 |  |
| Finished Goods |  |  |
| Bal | 58,000 (8) | 244,000 |
| (6) | 191,000 |  |
| Bal | 5,000 |  |
| Manufacturing Overhead |  |  |
| (4) | 78,000 (5) | 68,000 |
|  | 10,000 (7) | 10,000 |
|  | 0 |  |
| Cost of Goods Sold |  |  |
| (7) | 10,000 |  |
| (8) | 244,000 |  |
|  | 254,000 |  |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement

Blooms: Apply
Learning Objective: 02-05 Use T-accounts to showtheflowofcosts in a job-ordercostingsystem. Learning Objective: 02-07 Compute underapplied or overapplied overhead cost and prepare the journal entry to close the balance in Manufacturing Overhead to the appropriate accounts.

Levelof Difficulty: 2 Medium
Topic Area:Schedulesof Costof GoodsManufacturedand Costof Goods Sold
Topic Area: Using T-accounts in Job-Order Costing
15. Pirkl Corporation has provided the following data for the month of March:

| Inventories: | Beginning | Ending |
| :--- | ---: | ---: |
| Raw materials | $\$ 25,000$ | $\$ 30,000$ |
| Work in process | $\$ 16,000$ | $\$ 18,000$ |
| Finished goods | $\$ 36,000$ | $\$ 59,000$ |


| Additional information: |  |
| :--- | ---: |
| Raw materials purchases | $\$ 71,000$ |
| Direct labor cost | $\$ 83,000$ |
| Manufacturing overhead cost incurred | $\$ 74,000$ |
| Indirect materials included in manufacturing overhead cost incurred | $\$ 5,000$ |
| Manufacturing overhead cost applied to Work in Process | $\$ 71,000$ |

Required:

Prepare a Schedule of Cost of Goods Manufactured and a Schedule of Cost of Goods Sold.

| Cost of Goods Manufactured: |  |  |
| :--- | ---: | ---: |
| Direct materials |  |  |
| Beginning materials inventory | $\$ 25,000$ |  |
| Add: Purchases of raw materials | $\underline{71,000}$ |  |
| Raw materials available for use | 96,000 |  |
| Deduct: Ending raw materials inventory | $\underline{30,000}$ |  |
| Raw materials used in production | 66,000 |  |
| Less indirect materials included in manufacturing overhead incurred | 5,000 | $\$ 661,000$ |
| Direct labor |  | 83,000 |
| Manufacturing overhead applied to Work in Process |  | 71,000 |


| Total manufacturing costs |  | 215,000 |
| :--- | ---: | ---: |
| Add: Beginning work in process inventory |  | 16,000 |
|  |  | 231,000 |
| Deduct: Ending work in process inventory |  | 18,000 |
| Cost of goods manufactured | $\underline{\$ 213,000}$ |  |


| Overhead over or underapplied: |  |
| :--- | :--- |
| Actual manufacturing overhead incurred | $\$ 74,000$ |
| Manufacturing overhead applied to Work <br> in Process | $\underline{71,000}$ |
| Underapplied (overapplied) manufacturing <br> overhead | $\$ 3,000$ |


| Cost of Goods Sold |  |
| :--- | ---: |
| Beginning finished goods inventory | $\$ 36,000$ |
| Add: Cost of goods manufactured | $\underline{213,000}$ |
| Cost of goods available for sale | 249,000 |
| Deduct: Ending finished goods inventory | $\underline{59,000}$ |
| Unadjusted cost of goods sold | 190,000 |
| Add: Underapplied overhead | $\underline{3,000}$ |
| Adjusted cost of goods sold | $\$ 193,000$ |

AACSB: Analytical Thinking AICPA: BB Critical Thinking AICPA: FN Measurement Blooms: Apply
LearningObjective: 02-06 Prepareschedulesofcostofgoodsmanufacturedandcostofgoodssoldandanincomestatement. LevelofDifficulty: 2 Medium

