# ACCOUNTING MATHEMATICS CONCEPTS - PILOT <br> (193) 

## -OPEN EVENT

## REGIONAL - 2017

## DO NOT WRITE ON TEST BOOKLET

TOTAL POINTS
_____ (100 points)

Failure to adhere to any of the following rules will result in disqualification:

1. Contestant must hand in this test booklet and all printouts. Failure to do so will result in disqualification.
2. No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests or facsimile (handwritten, photocopied, or keyed) are allowed in the testing area.
3. Electronic devices will be monitored according to ACT standards.

No more than sixty (60) minutes testing time

Property of Business Professionals of America.
May be reproduced only for use in the Business Professionals of America
Workplace Skills Assessment Program competition.

## ACCOUNTING MATH CONCEPTS-OPEN-PILOT - REGIONAL 2017 <br> Page 2 of 14

## General Instructions

You have been hired as a Financial Assistant and will be keeping the accounting records for Professional Business Associates, located at 5454 Cleveland Avenue, Columbus, Ohio 43231. Professional Business Associates provides accounting and other financial services for clients. You will complete solutions for Professional Business Associates' as well as for clients.

Your name and/or school name should NOT appear on any work you submit for grading. Write your contestant number in the provided space. Staple all pages in order before you turn in your test.

Assumptions to make when taking this assessment:

1. Round all numbers to the nearest cent.
2. Yearly interest calculation is based on a 360 day year.
3. Overtime is given after 40 hours per week, unless specified in the question.
4. Our plant assets are purchased on January 1 of any given year, unless specified in the question.

## Identify the letter of the choice that best completes the statement or answers the question.

1. Todd used his personal truck at work for $25 \%$ of the 52,224 miles he drove last year. His employer reimbursed work usage mileage at $\$ .55 / \mathrm{mile}$. What was Todd's reimbursement at the end of the year?
A. $\$ 7,180.80$
B. $\$ 7,833.60$
C. $\$ 13,056.00$
D. $\$ 14,361.60$
2. PBA has estimated uncollectible accounts to be $4.3 \%$ of net sales. Net sales for the year was $\$ 1,346,059.32$. What amount will be allocated to the Allowance for Uncollectible Accounts?
A. $\$ 578,805.51$
B. $\$ 146,665.59$
C. $\$ 57,880.55$
D. $\$ 5,788.06$
3. Jeremy was injured on the job. He holds a disability policy that will pay $45 \%$ of his annual salary of $\$ 72,500$ while off work. What amount will Jeremy collect if he is paid semimonthly?
A. $\quad \$ 1,254.81$
B. $\$ 2,509.41$
C. $\$ 2,559.81$
D. $\$ 1,359.38$
4. Brad is a customer of PBA. Brad has requested more than the 30 days that a normal Accounts Receivable would give him. Both parties agreed on a \$9,600, 60-day, $11 \%$ note that was signed on August 12. Assuming Brad pays the note on the due date, what amount of interest will be collected?
A. $\$ 1,222.46$
B. $\$ 1,056.00$
C. $\$ 422.36$
D. $\$ 176.00$
5. Brad is a customer of PBA. Brad has requested more than the 30 days that a normal Accounts Receivable would give him. Both parties agreed on a $\$ 9,600,60$-day, $11 \%$ note that was signed on August 12. What is the due date on the note?
A. October 9
B. October 11
C. October 13
D. October 15

## ACCOUNTING MATH CONCEPTS-OPEN-PILOT - REGIONAL 2017

Page 4 of 14
6. Brad is a customer of PBA. Brad has requested more than the 30 days that a normal Accounts Receivable would give him. Both parties agreed on a \$9,600, 60 -day, $11 \%$ note that was signed on August 12. What is the total value of the note on the due date?
A. $\$ 10,822.46$
B. $\$ 10,656.00$
C. $\$ 10,022.36$
D. $\$ 9,776.00$
7. Brad is a customer of PBA. Brad has requested more than the 30 days that a normal Accounts Receivable would give him. Both parties agreed on a \$9,600, 60 -day, $11 \%$ note that was signed on August 12. Brad decides to pay off the note on the $47^{\text {th }}$ day. How much interest would be collected?
A. $\quad \$ 137.87$
B. $\$ 336.23$
C. $\$ 786.89$
D. $\$ 1012.13$
8. Kody borrowed $\$ 1,000$ and agreed to pay $5 \%$ interest over 4 months. What would be the interest that Kody would need to pay?
A. $\quad \$ 35.67$
B. $\$ 35.12$
C. $\quad \$ 16.67$
D. $\$ 16.44$
9. The regular price of an ounce of correction fluid is $\$ 1.84$. A 12-ounce bottle of correction fluid can be purchased for $\$ 17.04$. How much would be saved by purchasing correction fluid by the 12 ounce bottle?
A. $\quad \$ 1.84$
B. $\$ 5.04$
C. $\quad \$ 11.08$
D. there is no price differential
10. Looking at the following accounts, what would be the ending Owners Equity Balance:

| Cash | $\$ 36,000$ | Utilities Expense | $\$ 8,950$ |
| :--- | ---: | :--- | ---: |
| Sales | $\$ 79,400$ | Supplies | $\$ 12,500$ |
| Salaries Expense | $\$ 8,957$ | Accts Payable | $\$ 13,512$ |
| Brad Sims Drawing | $\$ 6,200$ | Brad Sims, Capital | $\$ 56,112$ |
| Supplies Expense | $\$ 6,121$ |  |  |

A. $\$ 49,912$
B. $\$ 89,484$
C. $\$ 105,284$
D. $\$ 135,512$
11. An interactive whiteboard is purchased on January 1 for $\$ 9,400$. It has a useful life of five years and a salvage value of $\$ 1,100$. What is the depreciable cost of the asset?
A. $\quad \$ 9,400$
B. $\$ 8,300$
C. $\$ 10,500$
D. $\$ 1,100$
12. An interactive whiteboard is purchased on January 1 for $\$ 9,400$. It has a useful life of five years and a salvage value of $\$ 1,100$. Using the straight-line method of depreciation, how much depreciation will be taken in the first year?
A. $\quad \$ 1,880$
B. $\$ 2,980$
C. $\$ 1,660$
D. $\$ 1,836$
13. An interactive whiteboard is purchased on January 1 for $\$ 9,400$. It has a useful life of five years and a salvage value of $\$ 1,100$. Using the straight-line method of depreciation, what is the book value of the interactive whiteboard at the end of the first year?
A. $\$ 7,520$
B. $\$ 6,420$
C. $\$ 7,740$
D. $\$ 7,564$
14. An interactive whiteboard is purchased on January 1 for $\$ 9,400$. It has a useful life of five years and a salvage value of $\$ 1,100$. Using the straight-line method of depreciation, what is the book value of the interactive whiteboard at the end of year 3?
A. $\$ 1,100$
B. $\$ 4,420$
C. $\$ 7,740$
D. $\$ 9,400$
15. An interactive whiteboard is purchased on January 1 for $\$ 9,400$. It has a useful life of five years and a salvage value of $\$ 1,100$. The interactive whiteboard is depreciated using the straight-line method. On June 30 of year 4, the interactive whiteboard is broken beyond repair and discarded. What would be the amount of the adjustment recorded for depreciation of year 4?
A. $\quad \$ 970$
B. $\$ 920$
C. $\$ 870$
D. $\$ 830$
16. An interactive whiteboard is purchased on January 1 for $\$ 9,400$. It has a useful life of five years and a salvage value of $\$ 1,100$. The interactive whiteboard is depreciated using the straight-line method. On June 30 of year 4, the interactive whiteboard is broken beyond repair and discarded. What amount would be recorded as a loss on the disposal of this plant asset?
A. $\$ 8,400$
B. $\$ 5,790$
C. $\$ 3,590$
D. $\$ 9,400$
17. An interactive whiteboard is purchased on January 1 for $\$ 9,400$. It has a useful life of five years and a salvage value of $\$ 1,100$. The interactive whiteboard is depreciated using the straight-line method. On June 30 of year 4, the interactive whiteboard is broken beyond repair and discarded. What would be the value of the accumulated depreciation of the interactive whiteboard at the time of disposal?
A. $\quad \$ 5,810$
B. $\$ 8,400$
C. $\$ 6,080$
D. $\$ 4,420$
18. Using the accounting equation, solve for the missing amount.

| Assets | $\$ 72,388$ | Liabilities | $\$ 2,340$ |
| :--- | ---: | :--- | ---: |
| Common Stock | $? ? ?$ | Dividends | 14,780 |
| Revenue | 54,045 | Expenses | 22,545 |

A. $\$ 19,060$
B. $\$ 21,322$
C. $\$ 53,328$
D. $\$ 16,642$
19. If a plant asset costs $\$ 4,200$, has accumulated depreciation of $\$ 2,600$, and is sold for $\$ 700$, the gain or loss on disposal is:
A. $\$ 3,500$ gain
B. $\$ 3,500$ loss
C. $\$ 900$ gain
D. $\$ 900$ loss
20. Keri is a website designer for Desi's Dozen's. Keri earns a regular hourly rate of $\$ 26.12$, as well as time and a half for overtime work on Saturdays and double time on Sundays. This week Keri worked 40 hours from Monday through Friday, 4 hours on Saturday, and 0 hours on Sunday. What is Keri's total pay for the week?
A. $\$ 1,201.52$
B. $\$ 1,149.28$
C. $\$ 1,044.80$
D. $\$ 987.23$

## Page 7 of 14

21. Jackson's Produce purchased 2,000 two-pound melons at 34 cents/pound and is shipping them from Texas to his store in Baltimore, Maryland. During the trip Jackson anticipates 60 pounds of shrinkage by the time it reaches the loading dock. From the dock to the time sitting on the shelves Jackson anticipates $10 \%$ of shrinkage from the remaining melons.

With total shrinkage allocated, what would be the total loss in dollars from our original purchase?
A. $\quad \$ 277.00$
B. $\$ 204.12$
C. $\$ 154.36$
D. $\$ 133.96$
22. Jackson's Produce purchased 2,000 two-pound melons at 34 cents/pound and is shipping them from Texas to his store in Baltimore, Maryland. During the trip Jackson anticipates 60 pounds of shrinkage by the time it reaches the loading dock. From the dock to the time sitting on the shelves Jackson anticipates $10 \%$ of shrinkage from the remaining melons.

Assuming all melons on the shelf sold and we sold the melons for 71 cents/pound, what would be the gross profit?
A. $\$ 1,312.02$
B. $\$ 1,970.23$
C. $\$ 2,217.54$
D. $\$ 2,517.66$
23. Simpson Co. is trading in an old packing machine for a new packing machine. The original machine was purchased on January 1 and cost $\$ 5,000$ with a 5 year useful life and no salvage value. The Accumulated Depreciation using the Straight line Method up to this year is $\$ 4,000$. The new machine's original cost is $\$ 9,000$ with a 5 year useful life and no salvage. The transaction is taking place on December 1 of year 5.

What is the amount of depreciation of the old machine to be adjusted for this current year?
A. $\quad \$ 1,266.87$
B. $\$ 1,466.67$
C. $\$ 916.67$
D. $\$ 1,600.00$
24. Simpson Co. is trading in an old packing machine for a new packing machine. The original machine was purchased on January 1 and cost $\$ 5,000$ with a 5 year useful life and no salvage value. The Accumulated Depreciation using the Straight line Method up to this year is $\$ 4,000$. The new machine's original cost is $\$ 9,000$ with a 5 year useful life and no salvage. The transaction is taking place on December 1 of year 5.

What is the book value of the old machine at the time of trade-in?
A. $\quad \$ 500.00$
B. $\$ 246.47$
C. $\$ 145.87$
D. $\quad \$ 83.33$
25. Simpson Co. is trading in an old packing machine for a new packing machine. The original machine was purchased on January 1 and cost $\$ 5,000$ with a 5 year useful life and no salvage value. The Accumulated Depreciation using the Straight line Method up to this year is $\$ 4,000$. The new machine's original cost is $\$ 9,000$ with a 5 year useful life and no salvage. The transaction is taking place on December 1 of year 5.

What is the total value of our accumulated depreciation of the old machine after we make our adjusting entry?
A. $\$ 4,916.67$
B. $\$ 2,325.00$
C. $\$ 3,225.53$
D. $\$ 4,050.86$
26. Simpson Co. is trading in an old packing machine for a new packing machine. The original machine was purchased on January 1 and cost $\$ 5,000$ with a 5 year useful life and no salvage value. The Accumulated Depreciation using the Straight line Method up to this year is $\$ 4,000$. The new machine's original cost is $\$ 9,000$ with a 5 year useful life and no salvage. The transaction is taking place on December 1 of year 5.

What is the adjustment for depreciation of the current year for our new machine?
A. $\quad \$ 166.67$
B. $\$ 133.33$
C. $\$ 214.57$
D. $\$ 150.00$
27. New Directions pays $\$ 5,000$ in advance for four months' rent on April 1. How much will New Directions adjust the Prepaid Rent account for on June 30?
A. $\$ 1,250$
B. $\$ 2,500$
C. $\$ 3,750$
D. $\$ 4,000$
28. Lane earns a weekly salary of $\$ 1,272$ at Kim's Antiques. Next month Lane will be promoted from Assistant Manager to Senior Manager. In her new position she will be paid $\$ 3,594$ bi-weekly. How much more per year will Lane earn as a Senior Manager than as an Assistant Manager?
A. $\$ 20,112$
B. $\$ 13,112$
C. $\$ 13,867$
D. $\$ 27,300$

## Page 9 of 14

29. Lane earns a weekly salary of $\$ 1272$ at Kim's Antiques. Next month Lane will be promoted from Assistant Manager to Senior Manager. In her new position she will be paid $\$ 3,594$ biweekly. Assuming that Lane's total tax liability moves from $26 \%$ to $29 \%$ with her new position, what will the increase in her tax liability be?
A. $\$ 17,197.44$
B. $\$ 9,901.32$
C. $\$ 3,655.89$
D. No Tax Liability Increase
30. Using LIFO (last in/first out) method of inventory valuation, what is the quantity of units in inventory after October 31?

| Date | Purchases |  |  | Cost of Merchandise Sold |  | Inventory |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- |
|  | Qty | Unit <br> Cost | Total <br> Cost | Qty | Unit <br> Cost | Total <br> Cost | Qty | Unit <br> Cost | Total <br> Cost |
| Sept. 1 |  |  |  |  |  |  | 25 | $\$ 6.10$ | $\$ 152.50$ |
| Sept. 8 | 75 | $\$ 6.20$ | $\$ 465.00$ |  |  |  |  |  |  |
| Sept. 20 |  |  |  | 45 | $\$ 9.00$ | $\$ 405.00$ |  |  |  |
| Sept. 30 |  |  |  | 35 | 9.00 | 315.00 |  |  |  |
| Oct. 8 |  |  |  | 5 | 9.10 | 45.50 |  |  |  |
| Oct. 10 | 50 | 6.10 | 305.00 |  |  |  |  |  |  |
| Oct. 27 |  |  |  | 35 | 9.20 | 322.00 |  |  |  |
| Oct. 31 |  |  |  | 20 | 9.15 | 183.00 |  |  |  |

A. 9
B. 10
C. 11
D. 12
31. Using LIFO (last in/first out) method of inventory valuation, what is the Unit Cost of merchandise in inventory after October 31?

| Date | Purchases |  |  |  | Cost of Merchandise Sold |  | Inventory |  |  |
| :--- | :--- | :--- | :--- | ---: | ---: | :--- | :--- | :--- | :--- |
|  | Qty | Unit <br> Cost | Total <br> Cost | Qty | Unit <br> Cost | Total <br> Cost | Qty | Unit <br> Cost | Total <br> Cost |
| Sept. 1 |  |  |  |  |  |  | 25 | $\$ 6.10$ | $\$ 152.50$ |
| Sept. 8 | 75 | $\$ 6.20$ | $\$ 465.00$ |  |  |  |  |  |  |
| Sept. 20 |  |  |  | 45 | $\$ 9.00$ | $\$ 405.00$ |  |  |  |
| Sept. 30 |  |  |  | 35 | 9.00 | 315.00 |  |  |  |
| Oct. 8 |  |  |  | 5 | 9.10 | 45.50 |  |  |  |
| Oct. 10 | 50 | 6.10 | 305.00 |  |  |  |  |  |  |
| Oct. 27 |  |  |  | 35 | 9.20 | 322.00 |  |  |  |
| Oct. 31 |  |  |  | 20 | 9.15 | 183.00 |  |  |  |

A. $\quad \$ 9.00$
B. $\$ 6.20$
C. $\quad \$ 6.10$
D. $\$ 9.15$

## Page 10 of 14

32. Using LIFO (last in/first out) method of inventory valuation, what is the total value of inventory after October 31?

| Date | Purchases |  |  |  | Cost of Merchandise Sold |  |  |  | Inventory |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: | :---: |
|  | Qty | Unit <br> Cost | Total <br> Cost | Qty | Unit <br> Cost | Total <br> Cost | Qty | Unit <br> Cost | Total <br> Cost |  |  |
| Sept. 1 |  |  |  |  |  |  | 25 | $\$ 6.10$ | $\$ 152.50$ |  |  |
| Sept. 8 | 75 | $\$ 6.20$ | $\$ 465.00$ |  |  |  |  |  |  |  |  |
| Sept. 20 |  |  |  | 45 | $\$ 9.00$ | $\$ 405.00$ |  |  |  |  |  |
| Sept. 30 |  |  |  | 35 | 9.00 | 315.00 |  |  |  |  |  |
| Oct. 8 |  |  |  | 5 | 9.10 | 45.50 |  |  |  |  |  |
| Oct. 10 | 50 | 6.10 | 305.00 |  |  |  |  |  |  |  |  |
| Oct. 27 |  |  |  | 35 | 9.20 | 322.00 |  |  |  |  |  |
| Oct. 31 |  |  |  | 20 | 9.15 | 183.00 |  |  |  |  |  |

A. $\quad \$ 61$
B. $\$ 62$
C. $\$ 63$
D. $\$ 64$
33. Using LIFO (last in/first out) method of inventory valuation, what is the total value of Cost of Merchandise Sold after October 31?

| Date | Purchases |  |  | Cost of Merchandise Sold |  |  |  | Inventory |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | Qty | Unit <br> Cost | Total <br> Cost | Qty | Unit <br> Cost | Total <br> Cost | Qty | Unit <br> Cost | Total <br> Cost |  |
| Sept. 1 |  |  |  |  |  |  | 25 | $\$ 6.10$ | $\$ 152.50$ |  |
| Sept. 8 | 75 | $\$ 6.20$ | $\$ 465.00$ |  |  |  |  |  |  |  |
| Sept. 20 |  |  |  | 45 | $\$ 9.00$ | $\$ 405.00$ |  |  |  |  |
| Sept. 30 |  |  |  | 35 | 9.00 | 315.00 |  |  |  |  |
| Oct. 8 |  |  |  | 5 | 9.10 | 45.50 |  |  |  |  |
| Oct. 10 | 50 | 6.10 | 305.00 |  |  |  |  |  |  |  |
| Oct. 27 |  |  |  | 35 | 9.20 | 322.00 |  |  |  |  |
| Oct. 31 |  |  |  | 20 | 9.15 | 183.00 |  |  |  |  |

A. $\quad \$ 854.00$
B. $\quad \$ 861.50$
C. $\quad \$ 868.00$
D. $\$ 1,270.50$
34. The Dragonfly Inn had net income of $\$ 57,520$ for the year. The Dragonfly Inn's beginning and ending total assets were $\$ 450,200$ and $\$ 410,800$ respectively. Calculate the Dragonfly Inn's return on assets (ROA) for the year.
A. $12.78 \%$
B. $13.36 \%$
C. $14.01 \%$
D. $8.77 \%$

## Page 11 of 14

35. Calculate the total debits in the trial balance for Luke's Diner as of December 31, 2016 (assume all accounts have normal balances).

| Cash | $\$ 8,200$ | Advertising Expense | $\$ 900$ |
| :--- | ---: | :--- | ---: |
| Unearned Revenue | 4,500 | Utilities Expense | 1,200 |
| Equipment | 18,000 | Rent Expense | 5,000 |
| Service Revenue | 16,700 | Accounts Payable | 2,300 |
| Common Stock | 12,800 | Dividends | 3,000 |

A. $\$ 36,300$
B. $\$ 30,700$
C. $\$ 33,300$
D. $\$ 46,100$
36. The Lima Bean reported assets of $\$ 8,800$ and equity of $\$ 4,800$. What is the Lima Bean's debit ratio?
A. $54.54 \%$
B. $45.45 \%$
C. $183.33 \%$
D. $83.33 \%$
37. The cash account has debits totaling $\$ 87,580$ and credits totaling $\$ 67,843$. What is the balance in the cash account?
A. $\$ 155,423$ credit
B. $\$ 155,423$ debit
C. $\$ 19,737$ debit
D. $\$ 19,737$ credit
38. The Supplies account had a beginning balance of $\$ 73$. During the first quarter of 2017, $\$ 87$ of supplies were purchased. At the end of the quarter, it was determined that $\$ 38$ of supplies were still on hand. What is the amount of the adjusting journal entry for the Supplies account?
A. $\quad \$ 122$
B. $\$ 35$
C. $\$ 49$
D. $\$ 14$
39. Retained Earnings of Huntzberger Inc. had a balance of $\$ 8,550$ at the end of the year prior to closing entries. If Net Income for Huntzberger Inc. was $\$ 13,428$ and $\$ 2,500$ in dividends were declared and paid, what is the ending balance in Retained Earnings after closing entries are posted?
A. $\$ 24,478$
B. $\$ 21,978$
C. $\$ 7,378$
D. $\$ 19,478$

## Page 12 of 14

40. Danes Hardware has Cash of $\$ 700$, Inventory of $\$ 840$, Supplies of $\$ 420$, Prepaid Insurance of $\$ 3,000$, and Equipment of $\$ 16,000$. Danes has Accounts Payable of $\$ 800$, Salaries Payable of $\$ 250$, and a 30 -year mortgage of $\$ 48,000$. What is Danes' current ratio?
A. 4.05
B. $\quad 19.30$
C. 4.72
D. $\quad 12.50$
41. Chilton Mfg. purchased materials on account from Stars Hollow Inc. for $\$ 4,800$ on December 10. Stars Hollow offered Chilton credit terms of $2 / 10, \mathrm{n} / 30$. If Chilton pays Stars Hollow on December $18^{\text {th }}$, how much does Chilton owe?
A. $\$ 4,800$
B. $\$ 4,320$
C. $\$ 4,704$
D. $\$ 3,360$
42. Bartlett Co. has the following selected accounts as of December $31^{\text {st }}$.

| Administrative <br> Expenses | $\$ 8,000$ | Cost of Goods Sold | $\$ 85,000$ |
| :--- | :--- | :--- | :--- |
| Interest Revenue | 2,000 | Sales Discounts | 2,500 |
|  <br> Allowances | 5,500 | Sales Revenue | 120,000 |
| Selling Expenses | 9,000 |  |  |

What is Bartlett's Net Sales Revenue?
A. $\$ 120,000$
B. $\$ 112,000$
C. $\$ 114,000$
D. $\$ 111,000$
43. Bartlett Co. has the following selected accounts as of December $31^{\text {st }}$.

| Administrative <br> Expenses | $\$ 8,000$ | Cost of Goods Sold | $\$ 85,000$ |
| :--- | :--- | :--- | :--- |
| Interest Revenue | 2,000 | Sales Discounts | 2,500 |
|  <br> Allowances | 5,500 | Sales Revenue | 120,000 |
| Selling Expenses | 9,000 |  |  |

What is Bartlett's Gross Profit?
A. $\$ 27,000$
B. $\$ 26,000$
C. $\$ 35,000$
D. $\$ 29,000$

## Page 13 of 14

44. Bartlett Co. has the following selected accounts as of December $31^{\text {st }}$.

| Administrative <br> Expenses | $\$ 8,000$ | Cost of Goods Sold | $\$ 85,000$ |
| :--- | :--- | :--- | :--- |
| Interest Revenue | 2,000 | Sales Discounts | 2,500 |
|  <br> Allowances | 5,500 | Sales Revenue | 120,000 |
| Selling Expenses | 9,000 |  |  |

What is Bartlett's Gross Profit Percentage?
A. $22.50 \%$
B. $29.17 \%$
C. $\quad 70.83 \%$
D. $24.11 \%$
45. Lyman's Lemons had the following financial data on their comparative financial statements.

|  | December 31, 2015 | December 31, 2016 |
| :--- | ---: | ---: |
| Cost of Goods Sold | $\$ 476,000$ | $\$ 484,000$ |
| Merchandise Inventory | 97,600 | 103,400 |

Calculate the Inventory Turnover Ratio for the year 2016.
A. $\quad 4.60$
B. 4.68
C. 4.82
D. 4.17
46. Lyman's Lemons had the following financial data on their comparative financial statements.

|  | December 31, 2015 | December 31, 2016 |
| :--- | ---: | ---: |
| Cost of Goods Sold | $\$ 476,000$ | $\$ 484,000$ |
| Merchandise Inventory | 97,600 | 103,400 |

Calculate the Days' Sales in Inventory for the year 2016.
A. 86.33
B. $\quad 75.73$
C. $\quad 77.99$
D. 79.35
47. Petty cash has an initial balance of $\$ 100$. There are currently petty cash tickets totaling $\$ 76$ and there is $\$ 20$ in the petty cash envelope. Is petty cash over or short and by how much?
A. Short $\$ 4$
B. Over $\$ 4$
C. Short $\$ 24$
D. Over \$24

## ACCOUNTING MATH CONCEPTS-OPEN-PILOT - REGIONAL 2017 <br> Page 14 of 14

48. Cregg Co. estimates bad debts using the percent of sales method. Sales for the year were $\$ 2,100,000$ and the Allowance for Bad Debts account has a credit balance of \$3,800. Cregg estimates bad debts to be $2 \%$ of sales. What is the amount of bad debt expense that Cregg will record for the year?
A. $\$ 45,800$
B. $\$ 38,200$
C. $\$ 41,924$
D. $\$ 42,000$
49. Cregg Co. estimates bad debts using the percent of sales method. Sales for the year were $\$ 2,100,000$ and the Allowance for Bad Debts account has a credit balance of $\$ 3,800$. Cregg estimates bad debts to be $2 \%$ of sales. What will be the balance in the Allowance for Bad Debt account at the end of the year?
A. $\$ 49,600$
B. $\$ 42,000$
C. $\$ 38,120$
D. $\$ 45,800$
50. Dule's Hillside has a balance of $\$ 46,440$ in Accounts Receivable. The balance in Allowance for Bad Debts is $\$ 3,215$ after adjustment. What is the net realizable value of Accounts Receivable?
A. $\$ 43,225$
B. $\$ 49,655$
C. $\$ 48,048$
D. $\$ 46,440$
