**ACC-405**

**Module 4 Practice Problems and Solutions**

**Problem 1.** Selco, a U.S. Company, imports and exports tools, shop equipment, and industrial construction supplies. The company uses a periodic inventory system. During April the company entered into the following transactions. All rate quotations are direct exchange rates.

**April 3** - Purchased power tools from a wholesaler in Japan, on account, at an invoice cost of 1,600,000 yen. On this date the exchange rate for the yen was $.0072.

**April 5** - Sold hand tools on credit that were manufactured in the U.S. to a retail outlet located in West Germany. The invoice price was $2,800. The exchange rate for euros was $0.0322.

**April 9** - Sold electric drills on account to a retailer in New Zealand. The invoice price was 16,800 U.S. dollars and the exchange rate for the New Zealand dollar was $.76.

**April 11** - Purchased drill bits on account from a manufacturer located in Belgium. The billing was for 801,282 euros. The exchange rate for euro was $.0312.

**April 16** - Paid 1,000,000 yen on account to the wholesaler for purchases made on April 3. The exchange rate on this date was $.0067.

**April 18** - Settled the accounts payable with the Belgium manufacturer. The exchange rate was $.0368.

**April 22** - Received full payment from the New Zealand retailer. The exchange rate was $.74.

**April 30** - Completed payment on the April 3 purchase. The exchange rate for yen was $.0078.

**Required:**

**Prepare journal entries** on the books of Selco to record the transactions listed above.

**Answer**

# Apr. 3 Purchases 11,520

Accounts Payable (1,600,000 x $.0072) 11,520

# 5 Accounts Receivable 2,800

Sales 2,800

9 Accounts Receivable 16,800

Sales 16,800

11 Purchases 25,000

Accounts Payable (801,282 x $.0312) 25,000

16 Accounts Payable (1,000,000 x $.0072) 7,200

Transaction Gain 500

Cash (1,000,000 x $.0067) 6,700

18 Accounts Payable 25,000

Transaction Loss 4,487

Cash (801,282 x $.0368) 29,487

22 Cash 16,800

Accounts Receivable 16,800

30 Accounts Payable (600,000 x $.0072) 4,320

Transaction Loss 360

Cash (600,000 x $.0078) 4,680

**Problem 2.** Crystal Exporting Co. is a U.S. wholesaler engaged in foreign trade. The following transactions are representative of its business dealings. The company uses a periodic inventory system and is on a calendar-year basis. All exchange rates are direct quotations.

|  |  |  |
| --- | --- | --- |
| Dec. | 1 | Crystal Exporting purchased merchandise from Chang’s Ltd., a Hong Kong manufacturer. The invoice was for 210,000 Hong Kong dollars, payable on April 1. On this same date, Crystal Exporting acquired a forward contract to buy 210,000 Hong Kong dollars on April 1 for $.1314. |
| Dec. | 29 | Crystal Exporting sold merchandise to Zintel Retailers for 120,000 Hong Kong dollars, receivable in 90 days. No hedging was involved. |
| April | 1 | Crystal Exporting received 120,000 Hong Kong dollars from Zintel Retailers. |
| April | 1 | Crystal Exporting submitted full payment of 210,000 Hong Kong dollars to Chang’s, Ltd., after obtaining the 210,000 Hong Kong dollars on its forward contract. |

Spot rates and the forward rates for the Hong Kong dollar were as follows:

|  |  |  |
| --- | --- | --- |
|  | ***Spot Rate*** | ***Forward Rate for*** |
| ***April 1 Delivery*** |
| Dec. 1 | $0.1265 | $0.1314 |
| Dec. 29 | 0.1240 | 0.1305 |
| Dec. 31 | 0.1259 | 0.1308 |
| Apr. 1 | 0.1430 |  |

**Required:**

Prepare journal entries for the transactions including the necessary adjustments on December 31.

**Answer:**

Dec 1 Purchases 26,565

Accounts Payable (210,000 x $.1265) 26,565

1 FC Receivable from Exchange Dealer 27,594

Dollars Payable to Exchange Dealer 27,594

(210,000 x $.1314 = $27,594)

Dec. 29 Accounts Receivable (120,000 x $.1240) 14,880

Sales 14,880

31 Accounts Payable 126

Transaction Gain [(210,000 x $.1259 = $26,439) - $26,565] 126

31 Transaction Lost 126

FC Receivable from Exchange Dealer 126

[(210,000 x $.1308 = $27,468) - $27,594]

31 Accounts Receivable 228

Transaction Gain [(120,000 x $.1259 = $15,108) - $14,880] 228

Apr. 1 Cash (120,000 x .1430) 17,160

Accounts Receivable 15,108

Transaction Gain 2,052

1 Transaction Loss 3,591

Accounts Payable [(210,000 x $.1430 = $30,030) - $26,439] 3,591

1 FC Receivable from Exchange Dealer 2,562

Transaction Gain [(210,000 x $.1430 = $30,030 - $27,468] 2,562

1 Investment in FC 30,030

Dollars Payable to Exchange Dealer 27,594

Cash 27,594

FC Receivable from Exchange Dealer 30,030

1 Accounts Payable 30,030

Investment in Foreign Currency 30,030

**Problem 3. No sample**

**Problem 4**. Apple Company was incorporated in Delaware in 2012. On November 2, 2019, the controller of the company entered into a forward contract to sell 50,000 British pounds for $1.5920 on March 1, 2020. The following exchange rates were quoted on the indicated dates:

|  |  |  |
| --- | --- | --- |
|  | **Spot Rate** | **Forward Rate March 1 Delivery** |
| **November 2, 2019** | $ 1.6021 | 1.5920 |
| **December 31, 2019** | 1.5820 | 1.5800 |
| **March 1, 2020** | 1.6543 |  |

Apple Company’s fiscal year-end is December 31.

**Required:**

1. Assume that the forward contract was entered into as a hedge against an exposed foreign currency receivable balance in the amount of £50,000. Prepare the journal entries that would be made by Apple Company on

November 2—to record the sale of the goods on account for £50,000 and to record the forward contract.

December 31—to adjust the accounts related to the exposed asset and forward contract at fiscal year-end.

March 1—to adjust the accounts related to the exposed asset and forward contract and to record the settlement of the receivable and delivery of the pounds to the exchange dealer.

1. Assume that the controller indicated on November 2 that the forward contract was acquired as a hedge of a future foreign currency transaction that is a commitment of Apple to sell inventory for £50,000 on March 1. Apple Company designates this hedge as a fair value hedge of an unrecognized firm commitment. Prepare the journal entries related to the forward contract and commitment to sell inventory that would be made by Apple Company on November 2, December 31, and March 1.
2. Assume that the contract was entered into to speculate in future exchange rate fluctuations. Prepare the journal entries that would be made by Apple Company on November 2, December 31, and March 1.
3. Compute the effect of the transactions in (A), (B), and (C) on the net income for the fiscal years ended December 31, 2019, and December 31, 2020. Indicate how the balance sheet accounts related to the forward contract would be reported in the December 31, 2019, balance sheet.

**Answer**

**Part A**

Nov. 2 Accounts Receivable 80,105

Sales (50,000 x $1.6021 = $80,105) 80,105

Dollars Receivable from Exchange Dealer

(50,000 x $1.5920 = 79,600) 79,600

FC Payable to Exchange Dealer 79,600

Dec. 31 Transaction Loss 1,005

Accounts Receivable [(50,000 x $1.5820 = 79,100) - $80,105] 1,005

FC Payable to Exchange Dealer 600

Transaction Gain [(50,000 x $1.58 = $79,000) – $79,600] 600

Mar. 1 Accounts Receivable 3,615

Transaction Gain [(50,000 x $1.6543 = 82,715) - 79,100] 3,615

Transaction Loss 3,715

FC Payable to Exchange Dealer

[(50,000 x $1.6543 = $82,715) – $79,000] 3,715

Investment in FC 82,715

Accounts Receivable 82,715

Cash 79,600

FC Payable to Exchange Dealer 82,715

Investment in FC 82,715

Dollars Receivable from Exchange Dealer 79,600

**Part B**

Nov. 2 Dollars Receivable from Exchange Dealer 79,600

FC Payable to Exchange Dealer 79,600

Dec. 31 FC Payable to Exchange Dealer 600

Exchange Gain 600

Exchange Loss 600

Firm Commitment 600

Mar. 1 Exchange Loss 3,715

FC Payable to Exchange Dealer 3,715

Firm Commitment 3,715

Exchange Gain 3,715

Investment in FC 82,715

Sales 79,600

Firm Commitment ($1.6543 - $1.592) × 50,000 3,115

Cash 79,600

FC Payable to Exchange Dealer 82,715

Investment in FC 82,715

Dollars Receivable from Exchange Dealer 79,600

**Part C**

Nov. 2 Dollars Receivable from Exchange Dealer 79,600

FC Payable to Exchange Dealer 79,600

Dec. 31 FC Payable to Exchange Dealer

((50,000 x $1.5800 = $79,000) - $79,600) 600

Transaction Gain 600

Mar. 1 Transaction Loss ((50,000 x $1.6543 = $82,715) - $79,000) 3,715

FC Payable to Exchange Dealer 3,715

Investment in FC 82,715

Cash 82,715

Cash 79,600

FC Payable to Exchange Dealer 82,715

Dollars Receivable from Exchange Dealer 79,600

Investment in FC 82,715

**Part D** 2019      A      B\_    C\_\_

Sales 80,105 0 0

Transaction gain (loss) 600 600 600

  (1,005) (600) 0

Increase (decrease) in net income $ 79,700 $ 0 $ 600

2020

Sales 0 79,600\* 0

Transaction gain (loss) 3,615 3,715 0

 (3,715) (3,715) (3,715)

Increase (decrease) in net income $  (100) $79,600 $(3,715)

Net increase (decrease) in net income

2019 + 2020 $79,600 $79,600 $(3,115)\*\*

\* $82,715 - $3,115 = $79,600

\*\* Verification of loss

Cash paid to buy currency 82,715

Cash paid to complete forward contract 79,600

Net loss on forward contract $ 3,115

|  |  |  |
| --- | --- | --- |
| On BS |  | 2019 |
| $ Receivable |  | $79,600 |
| FC Payable |  | 79,000 |
|  |  | $ 600 |

**Problem 5.** A U.S. company estimated that, in the first two months of 2016, its export sales to a Swiss company would generate 400,000 francs. On December 1, 2020, in an effort to protect against the weakening franc, the company purchased an option (out of the money) to sell 400,000 Swiss francs at an exchange rate of $0.60 with an expiration date of February 25, 2016. The cost of the option was $6,000. The spot rates on the following dates were:

December 1, 2020 $0.62

December 31, 2020 $0.60

February 25, 2021 $0.57

The option’s value in the options market on December 31, 2020, was $9,000. December 31 is also an interim reporting date. The option was exercised on February 25, 2020.

**Required:**

Prepare all journal entries needed on December 1, December 31, and February 25 to account for the option.

**Answer**

December 1, 2020

Option to sell Francs 6,000

Cash 6,000

December 31, 2020

Option to sell Francs 3,000

Exchange Gain – Other Comprehensive Income (balance sheet equity) 3,000

To record a gain on the change in option value ($9,000 - $6,000)

February 25, 2021

(3) Option to sell Francs 3,000

Exchange Gain – Other Comprehensive Income 3,000

To adjust the option value to its current realizable value of $12,000:

the value of the option [($.60 exercise price less $.57 spot rate) x 400,000 francs]

of $12,000 less the carrying value of the option ($9,000)

(4) Cash (400,000 × .60) 240,000

Option to sell Francs 12,000

Payable to Option Trader (400,000 × $.57) 228,000

To exercise the option and settle with the trader.

**Problem 6.** On October 1, 2019, Fairchange Corporation ordered some equipment from a supplier for 300,000 euros. Delivery and payment are to occur on November 15, 2019. The spot rates on October 1 and November 15, 2019, are $1.20 and $1.30, respectively.

**Required:**

1. Assume that Fairchange entered into a forward contract on October 1, 2019, to hedge the firm commitment. The forward rates for euros for November 15 delivery were

October 1 $1.23

November 15 $1.30

Furthermore, assume the equipment was purchased and paid for on November 15. Prepare all journal entries needed to record and settle the hedge and to record the purchase of the equipment.

1. If the forward contract was not acquired, record the journal entry to purchase the equipment.

**Answer**

**Note: Settlement date should be stated as 11/15/19.**

**Part A**

Oct. 1 FC Receivable from Exchange Dealer (300,000  $1.23) 369,000

Dollars Payable to Exchange Dealer 369,000

Nov. 15 FC Receivable from Exchange Dealer 21,000

Foreign Exchange Gain 21,000

[300,000 x 1.23 - 1.30)]

Foreign Exchange Loss 21,000

Firm Commitment 21,000

[10,000 x 1.23- 1.30)]

Investment in FC (300,000 × $1.30) 390,000

Dollars Payable to Exchange Dealer 369,000

FC Receivable from Exchange Dealer 390,000

Cash 369,000

Firm Commitment 21,000

Equipment 369,000

Investment in FC 390,000

**Part B**

Equipment 390,000

Cash 390,000

**Problem 7.** On January 1, 2014, Trenten Systems, a U.S.-based company, purchased a controlling interest in Grant Management Consultants located in Zurich, Switzerland. The acquisition was treated as a purchase transaction. The 2014 financial statements stated in Swiss francs are given below.

|  |  |  |
| --- | --- | --- |
| **GRANT MANAGEMENT CONSULTANTS** | | |
| **Comparative Balance Sheets January 1 and December 31, 2014** | | |
|  | **Jan 1** | **Dec 31** |
| Cash and Receivables | 20,000 | 55,000 |
| Net Property, Plant, and Equipment | 40,000 | 37,000 |
| Totals | 60,000 | 92,000 |
| Accounts and Notes Payable | 30,000 | 32,000 |
| Common Stock | 20,000 | 20,000 |
| Retained Earnings | 10,000 | 40,000 |
| Totals | 60,000 | 92,000 |

|  |  |  |
| --- | --- | --- |
| **GRANT MANAGEMENT CONSULTANTS** | | |
| **Consolidated Income and Retained Earnings Statement for the Year Ended December 31, 2014** | | |
| Revenues |  | 75,000 |
| Operating Expenses including Depreciation of 3,000 francs | | 30,000 |
| Net Income |  | 45,000 |
| Dividends Declared and Paid |  | 15,000 |
| Increase in Retained Earnings |  | 30,000 |

Direct exchange rates for Swiss franc are:

|  |  |
| --- | --- |
|  | Dollars per Swiss Franc |
| January 1, 2014 | $1.09 |
| December 31, 2014 | 1.03 |
| Average for 2014 | 1.06 |
| Dividend declaration and payment date | 1.08 |

**Required:**

1. Translate the year-end balance sheet and income statement of the foreign subsidiary using the current rate method of translation.
2. Prepare a schedule to verify the translation adjustment.

**Answer:**

**Part A** Consolidated Income and Retained Earnings Statement

Swiss Translation

Francs Rate $ \_\_\_

Revenues 75,000 $1.06 79.500

Operating Expenses (30,000) 1.06 (31.800)

Net Income 45,000 47.700

Retained Earnings - 1/1 10,000 1.09 10.900

55,000 58.600

Dividends (15,000) 1.08 (16.200)

Retained Earnings - 12/31 40,000 42.400

Balance Sheet

Cash and Receivables 55,000 1.03 56,650

Net Property, Plant, and Equipment 37,000 1.03 38,110

Total 92,000 94,760

Accounts and Notes Payable 32,000 1.03 32,960

Common Stock 20,000 1.09 21,800

Retained Earnings 40,000 42,400

92,000 97,160

Cumulative Translation Adjustment (debit)      - Balancing amt.  (2,400)

Total 92,000 94,760

Swiss Translation

Francs Rate $

**Part B** Exposed net asset position - 1/1 30,000 $1.09 32,700  
 Adjustment for changes in the net asset position during the year:

Net income 45,000 1.06 47,700  
 Dividends (15,000) 1.08 (16,200)  
 Net asset position translated using rate in effect at date of transactions--- 64,200 Exposed net asset position - 12/31 60,000 1.03 61,800  
 Cumulative translation adjustment (debit) (2,400)

**Problem 8**. Refer to **Problem 7 above**. Using the same information, assume that the Brazilian real is identified as the functional currency of the subsidiary.

**Required:**

1. Remeasure the account balances that are expressed in Swiss francs into Brazilian reals, Direct exchange rates for the real are:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Real per Swiss Franc |  | Dollars per Swiss Franc |
| Beginning of current year | 1.3940 | January 1, 2014 | $1.09 |
| End of current year | 1.2899 | December 31, 2014 | 1.03 |
| Average for current year | 1.3445 | Average for 2014 | 1.06 |
| Dividend payment date | 1.2438 | Dividend declaration and payment date | 1.08 |

1. Translate the remeasured accounts that are now stated in Reals into dollars using the current rate method. Direct exchange rates for the real are:

|  |  |
| --- | --- |
|  | Dollars per Real |
| Beginning of current year | $0.4891 |
| End of current year | .4630 |
| Average for current year | .4751 |
| Dividend payment date | .4740 |

**Answer**

**Part A Part B**



**Problem 9.** Dorsey Corporation purchased 90% of the common stock of Lansing Company on January 1, 2008. The cost of the investment was equal to the book value interest acquired. Lansing Company operates two retail stores and an exporting business in London that specializes in buying and selling British tweeds. The subsidiary provided the following financial statements in pounds to the parent company:

|  |  |  |
| --- | --- | --- |
| **LANSING COMPANY** | | |
| **Consolidated Income and Retained Earnings Statement for the Year Ended December 31, 2014** | | |
| Sales |  | 2,900,000 |
| Cost of Goods Sold |  | (1,400,000) |
| Depreciation Expense |  | (300,000) |
| Other Expenses |  | (400,000) |
| Net Income |  | 800,000 |
| 1/1 Retained Earnings |  | 900,000 |
|  |  | 1,700,000 |
| Less Dividends Declared and Paid Dec. 31 |  | (325,000) |
| 12/31 Retained Earnings |  | 1,375,000 |

|  |  |
| --- | --- |
| **LANSING** **COMPANY** | |
| **Balance Sheet December 31, 2014** | |
|  |  |
| Cash and Receivables | 1,275,000 |
| Merchandise Inventory | 490,000 |
| Property, Plant, and Equipment | 3,450,000 |
| Totals | 5,215,000 |
| Current Liabilities | 640,000 |
| Long Term Notes Payable | 1,200,000 |
| Capital Stock | 2,000,000 |
| Retained Earnings | 1,375,000 |
| Totals | 5,215,000 |

Lansing Company was incorporated on January 1, 2006, at which time all the property, plant, and equipment was purchased. The long-term notes were issued to partially finance the purchase of the fixed assets.

Direct exchange rates for the British pound are as follows:

|  |  |
| --- | --- |
| January 1, 2006 | $1.8996 |
| January 1, 2008 | 1.8365 |
| Average for last quarter 2018 | 1.5300 |
| January 1, 2019 | 1.4919 |
| December 31, 2019 | 1.4730 |
| Average for 2019 | 1.4788 |
| Average for Aug - Dec 2019 | 1.4950 |

The January 1, 2019, retained earnings balance of Lansing in dollars was $1,593,408, and the cumulative translation adjustment was a debit balance of $939,898. The beginning inventory of £420,000 was acquired during the last quarter of 2018 and the ending inventory was acquired during the last five months of 2019. Sales were made and purchases and other expenses were incurred evenly during the year.

**Required:**

Translate the December 31, 2019, account balances of Lansing Company into dollars assuming that the pound is the functional currency of Lansing Company.

**Answer**

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**Problem 10.** On January 1, 2019, a U.S. company purchased 100% of the outstanding stock of Ventana Grains, a company located in Latz City, New Zealand. Ventana Grains was organized on January 1, 2000. All the property, plant, and equipment held on January 1, 2019, was acquired when the company was organized. The business combination was accounted for as a purchase transaction. The 2019 financial statements for Ventana Grains, prepared in its local currency, the New Zealand dollar, are given here.

|  |  |  |
| --- | --- | --- |
| **VENTANA GRAINS** | | |
| **Comparative Balance Sheets January 1 and December 31, 2019** | | |
|  | **Jan 1** | **Dec 31** |
| Cash and Receivables | 500,000 | 880,000 |
| Inventories | 600,000 | 500,000 |
| Land | 400,000 | 400,000 |
| Buildings (net) | 650,000 | 605,000 |
| Equipment (net) | 465,000 | 470,000 |
| Totals | 2,615,000 | 2,855,000 |
| Short-term Accounts and Notes | 295,000 | 210,000 |
| Long-term Notes (600,000 issued 9/1/06, 80,000 issued 1/1/19 | 600,000 | 680,000 |
| Common Stock | 800,000 | 800,000 |
| Additional Paid-in Capital | 200,000 | 200,000 |
| Retained Earnings | 720,000 | 965,000 |
| Totals | 2,615,000 | 2,855,000 |

|  |  |  |
| --- | --- | --- |
| **VENTANA GRAINS**  **Consolidated Income and Retained Earnings Statement for the Year Ended December 31, 2019** | | |
| Revenues |  | 3,225,000 |
| Cost of Good Sold: |  |  |
| Beginning Inventory | 600,000 |  |
| Purchases | 2,100,000 |  |
| Cost of Goods Available for Sale | 2,700,000 |  |
| Less: Ending Inventory | 500,000 |  |
| Cost of Good Sold: |  | 2,200,000 |
| Gross Profit on Sales |  | 1,025,000 |
| Depreciation Expense | 140,000 |  |
| Other Expenses | 540,000 | 680,000 |
| Net Income |  | 345,000 |
| Jan. 1 Retained Earnings |  | 720,000 |
| Total |  | 1,065,000 |
| Less Dividends Paid |  | 100,000 |
| Dec. 31 Retained Earnings |  | 965,000 |

The account balances are computed in conformity with U.S. generally accepted accounting standards.

Other information is as follows:

1. Direct exchange rates for the New Zealand dollar on various dates were:

|  |  |
| --- | --- |
| Date | Exchange Rate |
| January 1, 2000 | $0.8011 |
| September 1, 2010 | 0.5813 |
| January 1, 2019 | 0.7924 |
| July 1, 2019 | 0.7412 |
| December 31, 2019 | 0.7298 |
| Average for 2019 | 0.7480 |
| Average for last 4 months on 2019 | 0.7476 |

1. Ventana Grains purchased additional equipment for 100,000 New Zealand dollars on July 1, 2019, by issuing a note for 80,000 New Zealand dollars and paying the balance in cash.
2. Sales were made and purchases and “Other Expenses” were incurred evenly throughout the year.
3. Depreciation for the period in New Zealand dollars was computed as follows:

Building 45,000

Equipment—Purchased before 1/1/2019 85,000

Equipment—Purchased July 1, 2019 10,000

1. The inventory is valued on a FIFO basis. The beginning inventory was acquired when the exchange rate was $.7480. The ending inventory was acquired during the last four months of 2019.
2. Dividends of 50,000 New Zealand dollars were paid on July 1 and December 31.

**Required:**

1. Translate the financial statements into dollars assuming that the local currency of the foreign subsidiary was identified as its functional currency.
2. Prepare a schedule to verify the translation adjustment determined in requirement A. Describe how the translation adjustment would be reported in the financial statements.

**Answer**

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**Problem 11.** Refer to the information given in Problem 10 (above).

**Required:**

1. Remeasure the financial statements into dollars assuming that the U.S. dollar was identified as the functional currency of the foreign subsidiary.
2. Prepare a schedule to verify the translation gain or loss determined in requirement A. Describe how the translation gain or loss would be reported in the financial statements.

**Answer**

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**Problem 12. No Sample**

**Problem 13.** Jose, Jill, and Salil decided to engage in a real estate venture as a partnership. Jose invested $100,000 cash and Jill provided office equipment that is carried on her books at $82,000. The partners agree that the equipment has a fair value of $110,000. There is a $30,000 note payable remaining on the equipment to be assumed by the partnership. Although Salil has no physical assets to invest in the partnership, both Jose and Jill believe that his experience as a real estate appraiser is a valuable skill needed by the partnership and is a basis for granting him a capital interest in the partnership.

Required:

Assuming that each partner is to receive an equal capital interest in the partnership,

1. Record the partnership formation under the bonus method.
2. Record the partnership formation under the goodwill method, and assume a total goodwill of $90,000.
3. Discuss the appropriateness of using either the bonus or goodwill methods to record the formation of the partnership.

**Answer**

|  |  |  |  |
| --- | --- | --- | --- |
| Agreed Fair Values | Invested  by Jose | Invested  by Jill | Invested  by Salil |
| Cash | $100,000 | - - - | - - - |
| Equipment |  | 110,000 | - - - |
| Total assets | 100,000 | 110,000 | 0 |
| Note payable assumed by partnership | - - - | 30,000 | - - - |
| Net assets invested | $100,000 | $80,000 | $0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Part A** Bonus Method | | | **Part B** Goodwill Method | | |
|  |  |  | Cash | 100,000 |  |
| Cash | 100,000 |  | Equipment | 110,000 |  |
| Equipment | 110,000 |  | Goodwill | 90,000 |  |
| Note Payable |  | 30,000 | Note Payable |  | 30,000 |
| Jose, Capital |  | 60,000 | Jose, Capital |  | 90,000 |
| Jill, Capital |  | 60,000 | Jill, Capital |  | 90,000 |
| Salil, Capital |  | 60,000 | Salil, Capital |  | 90,000 |

**Problem 14. No Sample**

**Problem 15.** Jones, Silva, and Thompson form a partnership and agree to allocate income equally after recognition of 10% interest on beginning capital balances and monthly salary allowances of $2,000 to Jones and $1,500 to Thompson. Capital balances on January 1 were as follows:

Jones $40,000

Silva 25,000

Thompson 30,000

**Required:**

Calculate the net income (loss) allocation to each partner under each of the following independent situations.

1. Net income for the year is $99,500.
2. Net income for the year is $38,300.
3. Net loss for the year is $15,100.

**Answer**

**Exercise 15-3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Jones | Silva | Thompson | Total |
| 1 | Interest on capital | $4,000 | $2,500 | $3,000 | $9,500 |
|  | Salary (12 months) | 24,000 | 0 | 18,000 | 42,000 |
|  | Total | 28,000 | 2,500 | 21,000 | 51,500 |
|  | Remainder divided equally | 16,000 | 16,000 | 16,000 | 48,000 |
|  | Income allocation | $44,000 | $18,500 | $37,000 | $99,500 |
| 2 | Interest on capital and salary | $28,000 | $2,500 | $21,000 | $51,500 |
|  | Excess allocation ($38,300 - $51,500) | (4,400) | (4,400) | (4,400) | (13,200) |
|  | Income allocation | $23,600 | $(1,900) | $16,600 | $38,300 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 3 | Interest on capital and salary | $28,000 | $2,500 | $21,000 | $51,500 |
|  | Excess allocation (-$15,100 -$51,500) | (22,200) | (22,200) | (22,200) | (66,600) |
|  | Net loss allocation | $5,800 | $(19,700) | $(1,200) | $(15,100) |

**Problem 16**. Gino Smith and Quandre Diggs are partners in an electrical repair business. Their respective capital balances are $90,000 and $50,000, and they share profits and losses equally. Because the partners are confronted with personal financial problems, they decided to admit a new partner to the partnership. After an extensive interviewing process they elect to admit Uchenna Nwosa into the partnership.

**Required:**

Prepare the journal entry to record the admission of Uchenna Nwosa into the partnership under each of the following conditions:

1. Uchenna acquires one‐fourth of Gino’s capital interest by paying $30,000 directly to him.
2. Uchenna acquires one‐fifth of each of Gino’s and Quandre’s capital interests. Gino receives $25,000 and Quandre receives $15,000 directly from Uchenna.
3. Uchenna acquires a one‐fifth capital interest for a $60,000 cash investment in the partnership. Total capital after the admission is to be $200,000.
4. Uchenna invests $40,000 for a one‐fifth interest in partnership capital. Implicit goodwill is to be recorded, consistent with the non‐GAAP use of the goodwill method for internal purposes.

**Answer**

1. Smith, Capital 22,500

Nwosa, Capital (1/4) ×90,000 22,500

2. Smith, Capital (1/5) ×90,000 18,000

Diggs, Capital (1/5) ×5,000 10,000

Nwosa, Capital 28,000

3. Cash 60,000

Smith, Capital ($60,000 - $40,000) × .50 10,000

Diggs, Capital 10,000

Nwosa, Capital 40,000

($90,000 + $50,000) + $60,000 = $200,000; Therefore, no goodwill is to be recognized.

Nwosa, capital = $200,000 × 0.20 = $40,000

4. Goodwill 20,000

Smith, Capital 10,000

Diggs, Capital 10,000

$40,000/0.20 = $200,000

Goodwill = $200,000 - ($90,000 + $50,000 + $40,000) = $20,000

Cash 40,000

Nwosa, Capital 40,000

**Problem 17.** Disha, Brianna, and Phoebe are partners in a retail appliance store. The partnership was formed January 1, 2019, with each partner investing $45,000. They agreed that profits and losses are to be shared as follows:

1. Divided in the ratio of 40:30:30 if net income is not sufficient to cover salaries, bonus, and interest.
2. A net loss is to be allocated equally.
3. Net income is to be allocated as follows if net income is in excess of salaries, bonus, and interest.
4. Monthly salary allowances are:

Disha $3,500

Brianna 2,500

Phoebe 1,500

1. Brianna is to receive a bonus of 8% of net income before subtracting salaries and interest, but after subtracting the bonus.
2. Interest of 10% is allocated based on the beginning‐of‐year capital balances.
3. Any remainder is to be allocated equally.

Operating performance and other capital transactions were as follows.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Capital Transactions** | | | | | | | |
|  |  | **Disha** | | **Brianna** | | **Phoebe** | |
| Year-End | Net Income (Loss) | Investment | Withdrawals | Investment | Withdrawals | Investment | Withdrawals |
| 12/31/2019 | $(5,400) | $15,000 | $17,000 | $15,000 | $7,000 | $6,000 | $3,200 |
| 12/31/2020 | 27,000 | 0 | 17,000 | 0 | 7,000 | 6,000 | 3,200 |
| 12/31/2021 | 120,000 | 0 | 19,000 | 0 | 9,000 | 6,000 | 3,200 |

**Required:**

A. Prepare a schedule of changes in partners' capital accounts for each of the three years.

B. Prepare the journal entry to close the income summary account to the partners' capital accounts at the end of each year.

**Answer**

**Part A**

A. DISHA, BRIANNA, AND PHOEBE PARTNERSHIP

Statement of Changes in Partners' Capital Accounts

For the Years Ended December 31, 2019, 2020, and 2021

December 31, 2019 Disha Brianna Phoebe Total

Beginning Capital Balances - 1/1 $45,000 $45,000 $45,000 $135,000

Add: Investments 15,000 15,000 6,000 36,000

60,000 60,000 51,000 171,000

Less: Withdrawals (17,000) (7,000) (3,200) (27,200)

Net loss allocation (1,800) (1,800) (1,800) (5,400)

Capital Balances - 12/31 $41,200 $51,200 $46,000 $138,400

December 31, 2020

Beginning Capital Balances - 1/1 $41,200 $51,200 $46,000 $138,400

Add: Investments 0 0 6,000 6,000

Net income allocation (40:30:30) 10,800 8,100 8,100 27,000

52,000 59,300 60,100 171,400

Less: Withdrawals (17,000) (7,000) (3,200) (27,200)

Capital Balances - 12/31 $35,000 $52,300 $56,900 $144,200

December 31, 2021

Beginning Capital Balances - 1/1 $35,000 $52,300 $56,900 $144,200

Add: Investments 0 0 6,000 6,000

Net income allocation:

Salaries 42,000 30,000 18,000 90,000

Bonus \* 8,889 8,889

Interest 3,500 5,230 5,690 14,420

Residual – Equally divided 2,230 2,231 2,230 6,691

47,730 46,350 25,920 120,000

82,730 98,650 88,820 270,200

Less: Withdrawals (19,000) (9,000) (3,200) (31,200)

Capital Balances - 12/31 $63,730 $89,650 $85,620 $239,000

\*Bonus = 0.08 × (NI - B)

B = 0.08 × ($120,000 - B) = $9,600 - .08B

1.08B = $9,600

B = $8,889

**Part B** Closing Journal Entries:

December 31, 2019

Disha, Capital 1,800

Brianna, Capital 1,800

Phoebe, Capital 1,800

Income Summary 5,400

December 31, 2020

Income Summary 27,000

Disha, Capital 10,800

Brianna, Capital 8,100

Phoebe, Capital 8,100

December 31, 2021

Income Summary 120,000

Disha, Capital 47,730

Brianna, Capital 46,350

Phoebe, Capital 25,920