

CHAPTER 2

ANALYZING BUSINESS TRANSACTIONS

Chapter Opener: Thinking Critically

The individuals in charge of keeping track of these transactions at Southwest as well as in other companies, are known as accountants. When recording the transactions, accountants are required to follow a set of rules and regulations known as GAAP.

For every financial transaction that Southwest has, their accountants determine the accounts that were affected and then they record, report and then analyze these transactions. By doing so they can, at a specific point in time and over a stipulated period, be able to assess the company's financial performance including profitability of the airline, assets owned by the company and of course the amount owed to creditors and owners.

Fast Facts

- Southwest Airlines opened in 1971 with three planes flying between Houston, Dallas, and San Antonio. Southwest Airlines currently flies over 100 million passengers a year to 97 cities all across the country.
- For the fiscal year 2012, the company's net income was \$421 million while its total operating revenue was \$17.09 billion.
- In 2012 Southwest served 63.3 million cans of soda, juices, and water; 14.1 million alcoholic beverages; 37.2 million bags of pretzels; 88.3 million bags of peanuts; 22.9 million Select-A-Snacks; and 45.5million other snacks.

Managerial Implications: Thinking Critically

Answers will vary. Students should mention total assets and the type of assets, the liabilities the business would be responsible for, and whether the business is making a profit.

Discussion Questions

Note to instructor: These questions are designed to check students' understanding of new terms, concepts, and procedures presented in the chapter.

1. Assets = Liabilities + Owner's Equity
2. Assets: property owned. Liabilities: debts. Owners' equity: owner's financial interest.
3. Assets, liabilities, and owner's equity.
4. Revenue and expenses; net income or loss
5. Beginning-of-period capital balance, additional investments, net income/loss for period, less **withdrawals ending capital balance.**
6. Firm name, title of statement, date of statement or the period of time covered
7. Balance sheet shows position at particular date; increase of operations for a period of time
8. **Inflow of money/assets resulting from sales or use of property.**
9. Outflow of money/assets for costs used to produce revenue.

Discussion Questions (continued)

- 10. Subtract total expenses from revenue
- 11. Increases owner's equity
- 12.
 - a. assets increase, owner's equity increase
 - b. one asset increase and another decrease; no change in total assets
 - c. assets decrease, liabilities decrease
 - d. assets increase, owner's equity increase
 - e. assets decrease, owner's equity decrease
 - f. assets decrease, owner's equity decrease

EXERCISE 2.1

Assets:	\$125,900
Liabilities:	\$26,225
Owners' Equity	\$99,675

EXERCISE 2.2

- 1. \$22,240
- 2. \$19,020
- 3. \$5,675
- 4. \$36,725
- 5. \$8,875

EXERCISE 2.3

Transaction	Assets	=	Liabilities	+	Owners' Equity	
1.	I				I	I = Increase (-) D = Decrease (+)
2.	I		I			
3.	I/D					
4.	I/D					
5.	I				I	
6.	D				D	
7.	I				I	
8.	I/D					
9.	D				D	
10.	D		D			

EXERCISE 2.4

	Assets	=	Liabilities	+	Owner's Equity
1.	Cash \$13,500		Accounts Payable \$23,180	+	David Malone, Capital \$28,520
2.	Dental Supplies 3,650	=		+	
3.	Dental Equipment 26,550	=		+	
4.	Office Furniture 8,000	=		+	
5.	Total \$51,700	=	\$23,180	+	\$28,520

EXERCISE 2.5

	Assets		=	Liabilities	+	Owner's Equity		
	Cash	+ Accounts Receivable		+ Equipment	=	Accounts Payable	+ John Amos Capital	+ Revenue - Expenses
1.	+\$60,000						+\$60,000	
2.				+22,000		+22,000		
3.	+3,100							+3,100
4.	-4,600			+4,600				
5.		+5,050						+5,050
6.	-4,450							4,450
7.	+3,200	-3,200						
8.	-13,000					-13,000		
Totals	\$44,250	+\$1,850	+	\$26,600	=	\$9,000	+	\$60,000 + \$8,150 - \$4,450

EXERCISE 2.6

Net income of \$23,000

Revenue

Repair Fees \$51,150

Expenses

Advertising Expense \$6,300

Salaries Expense 19,100

Telephone Expense 1,150

Utilities Expense 1,600

Total Expenses \$28,150

Net Income \$23,000

EXERCISE 2.7

1. Services were performed for cash.
2. Equipment was purchased for cash.
3. A payment was made on the amount owed to a creditor.
4. An expense was paid in cash.
5. Cash was received from charge customer.
6. Services were performed on credit.
7. An expense was paid in cash.

EXERCISE 2.8

Perez Investment Services										
Income Statement										
Month Ended September 30, 2016										
Revenue										
Fees Income						77	9	0	0	00
Expenses										
Advertising Expense	6	5	0	0	00					
Salaries Expense	16	0	0	0	00					
Telephone Expense		8	0	0	00					
Total Expenses						23	3	0	0	00
Net Income						54	6	0	0	00

EXERCISE 2.9

Net Loss of \$1,150	
Revenue	
Service Revenue	\$5,800
Expenses	
Advertising Expense.....	\$3,100
Telephone Expense.....	800
Salaries Expense	2,600
Cleaning Expense	450
Total Expense	\$6,950
Net Loss	-\$1,150

EXERCISE 2.10

Perez Investment Services										
Statement of Owner's Equity										
Month Ended September 30, 2016										
Alexandria Perez, Capital, September 1, 2016						26	7	0	0	00
Net Income for September	54	6	0	0	00					
Less Withdrawals for September	9	0	0	0	00					
Increase in Capital						45	6	0	0	00
Alexandria Perez, Capital, September 30, 2016						72	3	0	0	00

EXERCISE 2.10 (continued)

Perez Investment Services

Balance Sheet

September 30, 2016

Assets						Liabilities					
Cash	33	1	0	0	00	Accounts Payable	5	7	0	0	00
Accounts Receivable	4	0	0	0	00						
Office Supplies	3	4	0	0	00	Owner's Equity					
Office Equipment	37	5	0	0	00	Alexandria Perez, Capital	72	3	0	0	00
Total Assets	78	0	0	0	00	Total Liabilities and Owner's Equity	78	0	0	0	00

PROBLEM 2.1A

	Assets				=	Liabilities	+	Owner's Equity
	Cash	Accounts Receivable	Supplies	Equipment	=	Accounts Payable	+	Owner's Capital
1.	+\$97,000				=			+\$97,000
2.	-\$19,750			+\$19,750	=			
3.				+\$14,400	=	+\$14,400		
4.	-\$11,800				=	-\$11,800		
5.	+\$30,000				=			+\$30,000
6.	+\$8,200				=			+\$8,200
7.		+\$6,300			=			+\$6,300
8.	-\$4,000				=			-\$4,000
9.	+\$3,500	-\$3,500			=			
10.	-\$6,460			+\$6,460	=			
11.	-\$9,000				=			-\$9,000
Totals	\$87,690	+\$2,800	+\$6,460	+\$34,150	=	\$2,600	+	\$128,500

Analyze: The ending balance in the Cash account is \$87,690.

PROBLEM 2.2A

	Assets				=	Liabilities	+	Owner's Equity				
	Cash	Accounts Receivable	Office Furniture	Auto	=	Accounts Payable	+	M. Dickey Capital	+	Revenue	-	Expenses
Beginning Balances	\$61,000	+\$16,600	+\$35,800	+\$23,500	=	\$11,200	+	\$91,500	+	\$58,600	-	\$24,400
1.		+6,680			=					+6,680		
New Balances	61,000	23,280	35,800	23,500	=	11,200	+	91,500	+	65,280	-	24,400
2.	-1,700		+1,700		=							
New Balances	59,300	23,280	37,500	23,500	=	11,200	+	91,500	+	65,280	-	24,400
3.	+11,200	-11,200			=							

PROBLEM 2.2A (continued)

	Assets					=	Liabilities	+	Owner's Equity						
	Cash	+	Accounts Receivable	+	Office Furniture	+	Auto	=	Accounts Payable	+	M. Dickey Capital	+	Revenue	-	Expenses
New															
Balances	70,500	+	12,080	+	37,500	+	\$23,500	=	11,200	+	91,500	+	65,280	-	24,400
4.	-880														+880
New															
Balances	69,620	+	12,080	+	37,500	+	\$23,500	=	11,200	+	91,500	+	65,280	-	25,280
5.	-4,500								-4,500						
New															
Balances	65,120	+	12,080	+	37,500	+	\$23,500	=	6,700	+	91,500	+	65,280	-	25,280
6.	-9,700														+9,700
New															
Balances	55,420	+	12,080	+	37,500	+	\$23,500	=	6,700	+	91,500	+	65,280	-	34,980
7.	-1,120														+1,120
New															
Balances	54,300	+	12,080	+	37,500	+	\$23,500	=	6,700	+	91,500	+	65,280	-	36,100
8.	+10,500												+10,500		
New															
Balances	64,800	+	12,080	+	37,500	+	\$23,500	=	6,700	+	91,500	+	75,780	-	36,100
9.	-2,350														+2,350
New															
Balances	62,450	+	12,080	+	37,500	+	\$23,500	=	6,700	+	91,500	+	75,780	-	38,450
10.		+	+12,500										+12,500		
New															
Balances	\$62,450	+	\$24,580	+	\$37,500	+	\$23,500	=	\$6,700	+	\$91,500	+	\$88,280	-	\$38,450

Analyze: Total assets equal \$148,030.

PROBLEM 2.3A

Brown Equipment Repair Service										
Balance Sheet										
February 29, 2016										
Assets					Liabilities					
Cash	34	3	0	0	00	Accounts Payable	24	0	0	00
Supplies	6	3	8	0	00					
Accounts Receivable	13	2	0	0	00	Owner's Equity				
Equipment	78	0	0	0	00	James Brown, Capital	107	8	8	00
Total Assets	131	8	8	0	00	Total Liabilities and Owner's Equity	131	8	8	00

Analyze: Owner's Equity is \$107,880 at February 29, 2016.

PROBLEM 2.4A

Cotton Cleaning Service										
Income Statement										
Month Ended May 31, 2016										
Revenue										
Fees Income						7	8	8	0	00
Expenses										
Utilities Expense		9	8	0	00					
Salaries Expense		8	9	0	00					
Telephone Expense		3	1	4	00					
Total Expenses						10	1	9	4	00
Net Loss						(2)	3	1	4	00

Cotton Cleaning Service										
Statement of Owner's Equity										
Month Ended May 31, 2016										
Taylor Cotton, Capital, May 1, 2016						50	6	0	0	00
Net Loss for May	(2)	3	1	4	00					
Less Withdrawal for May	3	0	0	0	00					
Decrease in Capital						5	3	1	4	00
Taylor Cotton, Capital, May 31, 2016						45	2	8	6	00

PROBLEM 2.4A (continued)

Cotton Cleaning Service

Balance Sheet

May 31, 2016

Assets					Liabilities				
Cash	4	6	8	600	Accounts Payable	4	9	0	000
Accounts Receivable	5	9	0	000					
Supplies	5	8	0	000	Owner's Equity				
Equipment	33	8	0	000	Taylor Cotton, Capital	45	2	8	600
Total Assets	50	1	8	600	Total Liabilities and Owner's Equity	50	1	8	600

Analyze: The amount of \$45,286 (Taylor Cotton, Capital) was transferred to the balance sheet.

PROBLEM 2.1B

	Assets				=	Liabilities	+	Owner's Equity
	Cash	Accounts Receivable	Supplies	Equipment	=	Accounts Payable	+	Owner's Capital
1.	+\$72,000				=			+\$72,000
2.	-\$32,000			+\$32,000	=			
3.				+\$12,000	=	+\$12,000		
4.	-\$6,000				=	-\$6,000		
5.	+\$12,000				=			+\$12,000
6.	+\$8,400				=			+\$8,400
7.		+\$7,300			=			+\$7,300
8.	-\$5,200				=			-\$5,200
9.	+\$5,000	-\$5,000			=			
10.	-\$6,300			+\$6,300	=			
11.	-\$10,000				=			-\$10,000
Totals	\$37,900	+\$2,300	+\$6,300	+\$44,000	=	\$6,000	+	\$84,500

Analyze: Transaction 3 increased the Company's debt by \$12,000.

PROBLEM 2.2B

	Assets				=	Liabilities	+	Owner's Equity	
	Cash	Accounts Receivable	Supplies	Office Furniture	=	Accounts Payable	+	S. Cravens Capital	+ Revenue - Expenses
Beginning Balances	\$38,000	+\$12,000	+\$12,800	+\$24,000	=	\$10,000	+	\$49,800	+\$52,000 - \$25,000
1.		+8,000			=				+8,000
New Balances	38,000	20,000	12,800	24,000	=	10,000	+	49,800	60,000 - 25,000
2.	-2,880				=				+2,880
New Balances	35,120	20,000	12,800	24,000	=	10,000	+	49,800	60,000 - 27,880
3.	+10,000				=				+10,000

PROBLEM 2.2B (continued)

	Assets					=	Liabilities	+	Owner's Equity		
	Cash	+ Accounts Receivable	+ Supplies	+ Office Furniture		=	Accounts Payable	+	S. Cravens Capital	+ Revenue	- Expenses
New Balances	45,120	+ 20,000	+ 12,800	+ 24,000	=	10,000	+ 49,800	+ 70,000	- 27,880		
4.	-1,600										+1,600
New Balances	43,520	+ 20,000	+ 12,800	+ 24,000	=	10,000	+ 49,800	+ 70,000	- 29,480		
5.	-4,800					-4,800					
New Balances	38,720	+ 20,000	+ 12,800	+ 24,000	=	5,200	+ 49,800	+ 70,000	- 29,480		
6.	-1,920										+1,920
New Balances	36,800	+ 20,000	+ 12,800	+ 24,000	=	5,200	+ 49,800	+ 70,000	- 31,400		
7.	-14,000										+14,000
New Balances	22,800	+ 20,000	+ 12,800	+ 24,000	=	5,200	+ 49,800	+ 70,000	- 45,400		
8.	+11,200										+11,200
New Balances	34,000	+ 20,000	+ 12,800	+ 24,000	=	5,200	+ 49,800	+ 81,200	- 45,400		
9.			+2,000			+2,000					
New Balances	34,000	+ 20,000	+ 14,800	+ 24,000	=	7,200	+ 49,800	+ 81,200	- 45,400		
10.	+6,000	+ -6,000									
New Balances	\$40,000	+ \$14,000	+ \$14,800	+ \$24,000	=	\$7,200	+ \$49,800	+ \$81,200	- \$45,400		

Analyze: Owner's Equity balance is \$85,600; \$49,800 + (\$81,200 - \$45,400).

PROBLEM 2.3B

Smith's Tax Service

Balance Sheet

December 1, 2016

Assets					Liabilities				
Cash	50	0	0	00					
Furniture	10	0	0	00					
Equipment	12	0	0	00	Owner's Equity				
					Douglas Smith, Capital				
					72	0	0	00	
Total Assets	72	0	0	00	Total Liabilities and Owner's Equity				
					72	0	0	00	

Analyze: The amount reported on the balance sheet for owner's equity would be \$56,000.

PROBLEM 2.4B

Kathryn Proctor, Attorney and Counselor of Law

Income Statement

Month Ended August 31, 2016

Revenue									
Fees Income					10	8	0	00	
Expenses									
Utilities Expense		6	0	00					
Salaries Expense	5	4	0	00					
Telephone Expense		6	0	00					
Total Expenses					6	6	0	00	
Net Income					4	2	0	00	

Kathryn Proctor, Attorney and Counselor of Law

Statement of Owner's Equity

Month Ended August 31, 2016

Kathryn Proctor, Capital, Aug. 1, 2016					23	2	0	00
Net Income for August	4	2	0	00				
Less Withdrawals for August	1	2	0	00				
Increase in Capital					3	0	0	00
Kathryn Proctor, Capital, Aug. 31, 2016					26	2	0	00

Analyze: Net Income of \$4,200 was transferred from the income statement.

PROBLEM 2.4B (continued)

Kathryn Proctor, Attorney and Counselor at Law

Balance Sheet

August 31, 2016

Assets											
Cash	4	8	0	0	00	Accounts Payable		6	0	0	00
Accounts Receivable	6	6	0	0	00						
Supplies	5	4	0	0	00	Owner's Equity					
Equipment	10	0	0	0	00	Kathryn Proctor, Capital	26	2	0	0	00
Total Assets	26	8	0	0	00	Total Liabilities and Owner's Equity	26	8	0	0	00

Analyze: Net income of \$4,200 was transferred from the income statement.

CRITICAL THINKING PROBLEM 2.1

Determine the balance for Carl Nicholson, April 30, 2016.

Assets				=	Liabilities	+	Owner's Equity							
Cash	+	Accounts Receivable	+	Machinery	=	Accounts Payable	+	C. Nicholson Capital	-	C. Nicholson Drawing	+	Revenue	-	Expenses
\$30,000	+	\$12,000	+	\$21,000	=	\$13,200	+	?	-	\$6,800	+	\$26,800	-	\$21,490

Let Carl Nicholson, Capital = X.

Solving for X:

$$\$63,000 \text{ (Total Assets)} = \$13,200 \text{ (Accounts Payable)} - \$6,800 \text{ (Drawing)} + \$26,800 \text{ (Revenue)} - \$21,490 \text{ (Expenses)} + X$$

$$\begin{aligned}
 & \$63,000 - \$11,710 = \$11,710 - \$11,710 + X \\
 & \$51,290 = X \\
 \text{Carl Nicholson, Capital,} & = \underline{\underline{\$51,290}} \\
 \text{April 1, 2016} &
 \end{aligned}$$

Advertising Expense	\$3,890
Maintenance Expense	4,600
Salaries Expense	13,000
Total Expenses	<u><u>\$21,490</u></u>

CRITICAL THINKING PROBLEM 2.1 (continued)

Carl Nicholson, Certified Public Accountant

Income Statement

Month Ended April 30, 2016

Income Statement									
Month Ended April 30, 2016									
Revenue									
Fees Earned						26	8	0	00
Expenses									
Advertising Expense	3	8	9	00					
Maintenance Expense	4	6	0	00					
Salaries Expense	13	0	0	00					
Total Expenses						21	4	9	00
Net Income						5	3	1	00

Carl Nicholson, Certified Public Accountant

Statement of Owner's Equity

Month Ended April 30, 2016

Statement of Owner's Equity									
Month Ended April 30, 2016									
Carl Nicholson, Capital, April 1, 2016						51	2	9	00
Net Income for April	5	3	1	00					
Less Withdrawals for April	6	8	0	00					
Decrease in Capital						(1	4	9	00)
Carl Nicholson, Capital, April 30, 2016						49	8	0	00

Carl Nicholson, Certified Public Accountant

Balance Sheet

April 30, 2016

Assets					Liabilities				
Cash	30	0	0	00	Accounts Payable	13	2	0	00
Accounts Receivable	12	0	0	00	Owner's Equity				
Equipment	21	0	0	00	Carl Nicholson, Capital	49	8	0	00
Total Assets	63	0	0	00	Total Liabilities and Owner's Equity	63	0	0	00

∴ Analyze: The decrease in owner's equity was \$1,490.

CRITICAL THINKING PROBLEM 2.2

Body Builders Fitness Center

Income Statement

Two Months Ended December 31, 2016

Revenue										
Fees Earned						9	7	6	0	00
Expenses										
Rent Expense	8	0	0	0	00					
Cleaning Expense	2	1	0	0	00					
Advertising Expense		8	0	0	00					
Total Expenses						10	9	0	0	00
Net Loss						(1	1	4	0	00)

Some students may include the warm-up suits as a business expense. If the suits are a type of uniform, their inclusion is appropriate; if they are to be worn at home and at work, their cost is not a business expense.

The parking ticket is a personal expense. The cleaning of the studio and the printing of the flyers are business expenses. Payment of expenses with the owner's personal credit card would be considered an additional investment by the owner.

It is not unusual for new businesses to operate at a loss. James should project his income and expenses for the next several months to determine how much new business he will need to earn an income. Students' suggestions for improving the accounting system might include opening a business checking account, not using a personal credit card for business expenses, setting up a filing system for business records, and purchasing a computer to maintain financial records.

SOLUTIONS TO BUSINESS CONNECTIONS

Managerial Focus:

1. Not necessarily. Reinvestments in assets or use of cash to pay debts affect cash. In addition, sales or revenue may have been "on account."
2. No. Early development is expensive, risky, and time consuming. Profits may not be achieved for a year or more.
3. The firm's obligations must be met as they become due.
4. Organized financial information can be used to evaluate operating efficiency and to make decisions about current and future activities.

Ethical Dilemma:

goods are shipped. If she enters the sale and for some reason the customer doesn't make the order or the goods are not available for shipment, Carol would need to pay the bonus back. Julia's job would be in jeopardy.

Financial Statement Analysis:

1. Southwest Airlines Co., Consolidated Statement of Income, Years Ended December 31,
2. Passenger, Freight, Other.
3. Statement of Owner's Equity (Consolidated Statement of Stockholders' Equity).
4. Total operating revenue was \$4.2 billion for the quarter ended December 31, 2012.
5. See current topic on website.

Internet Connection:

Macy's, Bloomingdales, and now May is included in the Federated Corporation. Shopping online is on every home page. To record an online sale it must debit a credit card receivable and credit sales. A general job announcement and requirements are given at the site.

Team Work:

Accounts Payable Clerk would use Purchases (Increase), A/P (increase and decrease) and Cash (decrease). Accounts Receivable Clerk would use Sales (increase), A/R (increase and decrease) and Cash (increase). Full charge bookkeeper would use accounts Cash (increase and decrease), Bank Charges (increase) and Miscellaneous account (increase), Interest Income (increase), Interest Expense (increase). Accurate numbers are developed when it is determined that all transactions have been entered and that total assets equal total liabilities plus owner's equity.

SOLUTIONS TO PRACTICE TEST

Part A True-False

1. TRUE
2. TRUE
3. FALSE
4. TRUE
5. FALSE
6. TRUE
7. FALSE
8. TRUE
9. FALSE
10. TRUE

Part B Matching

1. b
2. f
3. e
4. c
5. h
6. d
7. g
8. a

Part C Completion

1. profit
2. credit or on account
3. reduced or decreased
4. assets
5. asset or property
6. equal
7. accounts payable or liability
8. analyze