

CHAPTER 2

ANALYZING TRANSACTIONS: THE ACCOUNTING EQUATION

REVIEW QUESTIONS

1. It is necessary to distinguish between business assets and liabilities and nonbusiness assets and liabilities of a single proprietor because, according to the business entity concept, nonbusiness assets and liabilities are not included in the business entity's accounting records. These distinctions allow the owner to make decisions based on the financial condition and results of the business apart from nonbusiness activities.
2. The six major elements of the accounting equation are listed below.
 - a. Assets are items owned by a business that will provide future benefits.
 - b. Liabilities are items owed to another business.
 - c. Owner's equity is the amount by which the business assets exceed the business liabilities. Other terms used for owner's equity include net worth and capital.
 - d. Revenues represent the amount a business charges customers for products sold or services performed.
 - e. Expenses represent the decrease in assets (or increase in liabilities) as a result of efforts made to produce revenues.
 - f. Withdrawals, or drawing, reduce owner's equity as a result of the owner taking cash or other assets out of the business for personal use.
3. The three basic questions that must be answered when analyzing the effects of a business transaction on the accounting equation are as follows:
 - a. What happened?
 - b. Which accounts are affected?
 - c. How is the accounting equation affected?
4. The function of an income statement is to report the profitability of business operations for a specific period of time.
5. The function of a statement of owner's equity is to report the investments and withdrawals by the owner and the profits and losses generated through operating activities for a specific period of time.
6. The function of a balance sheet is to report the assets, liabilities, and owner's equity on a specific date. It is called a balance sheet because it confirms that the accounting equation is in balance.
7. The three basic phases of the accounting process are listed below.

Input—Business transactions are used as input to the accounting process.

Processing—The transactions are processed by recognizing their effects on assets, liabilities, owner's equity, revenues, and expenses.

Output—Output from the accounting process is provided in the form of financial statements.

Exercise 2-1A

<u>Item</u>	<u>Account</u>	<u>Classification</u>
Money in bank	Cash	<u>A</u>
Office supplies	Supplies	<u>A</u>
Money owed	Accounts Payable	<u>L</u>
Office chairs	Office Furniture	<u>A</u>
Net worth of owner	John Smith, Capital	<u>OE</u>
Money withdrawn by owner	John Smith, Drawing	<u>OE</u>
Money owed by customers	Accounts Receivable	<u>A</u>

Exercise 2-2A

<u>Assets</u>	=	<u>Liabilities</u>	+	<u>Owner's Equity</u>
<u>\$44,000</u>	=	\$27,000	+	\$17,000
\$32,000	=	\$18,000	+	<u>\$14,000</u>
\$27,000	=	<u>\$ 7,000</u>	+	\$20,000

Exercise 2-3A

	<u>Assets</u>	=	<u>Liabilities</u>	+	<u>Owner's Equity</u>
(a)	<u>27,000</u>				<u>27,000</u>
Bal.	<u>27,000</u>				<u>27,000</u>
(b)	<u>7,500</u>		<u>7,500</u>		
Bal.	<u>34,500</u>		<u>7,500</u>		<u>27,000</u>
(c)	<u>(1,600)</u>				
	<u>1,600</u>				
Bal.	<u>34,500</u>		<u>7,500</u>		<u>27,000</u>
(d)	<u>(2,300)</u>		<u>(2,300)</u>		
Bal.	<u>32,200</u>		<u>5,200</u>		<u>27,000</u>

Exercise 2-4A

	Owner's Equity					Description					
	Assets	=	Liabilities	+	Capital		-	Drawing	+	Revenues	-
Bal. from E 2-3A	32,200	=	5,200	+	27,000	-		+		-	
(d)									1,500		Service fees
(e)	1,500										
(f)	(600)									600	Rent expense
(g)	(64)									64	Phone expense
(h)	(1,000)						1,000				
(i)	750								750		Service fees
(j)	(1,200)									1,200	Wages expense
(k)	400										
	(400)										
Bal.	31,586	=	5,200	+	27,000	-	1,000	+	2,250	-	1,864

Total Assets	<u>\$31,586</u>	Total Liabilities	\$ 5,200
		Capital	27,000
		Drawing	(1,000)
		Revenues	2,250
		Expenses	<u>(1,864)</u>
		Total Liabilities and Owner's Equity	<u>\$31,586</u>

Exercise 2-7A

Betsy Ray's Accounting Service**Statement of Owner's Equity****For Month Ended June 30, 20--**

Betsy Ray, capital, June 1, 20--		\$ —
Investment during June		20,000
Total investment		\$20,000
Less: Net loss for June	\$3,000	
Withdrawals for June	8,000	
Decrease in capital		(11,000)
Betsy Ray, capital, June 30, 20--		\$ 9,000

Problem 2-8A

	<u>Assets</u>	=	<u>Liabilities</u>	+	<u>Owner's Equity</u>
1.	<u>\$26,960</u>		<u>\$ 7,550</u>		<u>\$19,410</u>
2.	<u>\$35,500</u>		<u>\$10,910</u>		<u>\$24,590</u>
3.	<u>\$32,040</u>		<u>\$12,910</u>		<u>\$19,130</u>

Problem 2-9A: See page 10

Problem 2-10A

Jay Pembroke**Income Statement****For Month Ended April 30, 20--**

Revenues:		
Service fees		\$3,300
Expenses:		
Rent expense		750
Net income		\$2,550

Problem 2-9A

	Assets			=	Liabilities + (Amts. Owed)		+	Owner's Equity		
	Accounts Receivable + Cash	Office Supplies	Prepaid Insurance		Accounts Payable	J. Pembroke, Capital		J. Pembroke, Drawing	Revenues	Expenses
(a)	18,000					18,000				
(b)	(2,000)	4,600			2,600					
(c)	(1,200)		1,200							
(d)	1,300	2,000						3,300		Service fees
(e)	(2,300)				(2,300)					
(f)	(750)								750	Rent expense
(g)	(100)						100			
Bal.	12,950	2,000	1,200		300	18,000	100	3,300	750	

Cash	\$12,950	Accounts Payable	\$ 300
Accounts Receivable	2,000	Jay Pembroke, Capital	18,000
Office Supplies	4,600	Jay Pembroke, Drawing	(100)
Prepaid Insurance	1,200	Service Fees	3,300
Total Assets	<u>\$20,750</u>	Rent Expense	<u>(750)</u>
		Total Liabilities and Owner's Equity	<u>\$20,750</u>

Problem 2-11A

Jay Pembroke

Statement of Owner's Equity

For Month Ended April 30, 20--

<i>Jay Pembroke, capital, April 1, 20--</i>		\$ —
<i>Investment during April</i>		18,000
<i>Total investment</i>		\$18,000
<i>Net income for April</i>	\$2,550	
<i>Less withdrawals for April</i>	100	
<i>Increase in capital</i>		2,450
<i>Jay Pembroke, capital, April 30, 20--</i>		\$20,450

Problem 2-12A

Jay Pembroke

Balance Sheet

April 30, 20--

Assets		Liabilities	
<i>Cash</i>	\$12,950	<i>Accounts payable</i>	\$ 300
<i>Accounts receivable</i>	2,000		
<i>Office supplies</i>	4,600	Owner's Equity	
<i>Prepaid insurance</i>	1,200	<i>Jay Pembroke, capital</i>	20,450
<i>Total assets</i>	\$20,750	<i>Total liab. & owner's equity</i>	\$20,750

Exercise 2-1B

<u>Account</u>	<u>Classification</u>
Cash	<u>A</u>
Accounts Payable	<u>L</u>
Supplies	<u>A</u>
Bill Jones, Drawing	<u>OE</u>
Prepaid Insurance	<u>A</u>
Accounts Receivable	<u>A</u>
Bill Jones, Capital	<u>OE</u>

Exercise 2-2B

<u>Assets</u>	=	<u>Liabilities</u>	+	<u>Owner's Equity</u>
<u>\$25,000</u>	=	\$20,000	+	\$ 5,000
\$30,000	=	\$15,000	+	<u>\$15,000</u>
\$20,000	=	<u>\$10,000</u>	+	\$10,000

Exercise 2-3B

	<u>Assets</u>	=	<u>Liabilities</u>	+	<u>Owner's Equity</u>
(a)	<u>30,000</u>				<u>30,000</u>
Bal.	<u>30,000</u>				<u>30,000</u>
(b)	<u>4,500</u>		<u>4,500</u>		
Bal.	<u>34,500</u>		<u>4,500</u>		<u>30,000</u>
(c)	<u>1,600</u>				
	<u>(1,600)</u>				
Bal.	<u>34,500</u>		<u>4,500</u>		<u>30,000</u>
(d)	<u>(2,000)</u>		<u>(2,000)</u>		
Bal.	<u>32,500</u>		<u>2,500</u>		<u>30,000</u>

Exercise 2-4B

	Assets		=	Liabilities		+	Capital		Owner's Equity			Description	
										Drawing	+		Revenues
Bal. from E 2-3B	32,500			2,500			30,000						
(d)										3,000			Service fees
(e)	3,000												Rent expense
(f)	(1,000)										1,000		Phone expense
(g)	(68)										68		
(h)	(800)								800				
(i)	900									900			Service fees
(j)	(500)										500		Wages expense
(k)	500												
Bal.	34,032			2,500			30,000		800			1,568	

Total Assets	<u>\$34,032</u>	Total Liabilities	<u>\$ 2,500</u>
	Capital		30,000
	Drawing		(800)
	Revenues		3,900
	Expenses		<u>(1,568)</u>
	Total Liabilities and Owner's Equity		<u>\$34,032</u>

Exercise 2-7B

Lopez Financial Consulting
Statement of Owner's Equity
 For Month Ended June 30, 20--

<i>Efran Lopez, capital, June 1, 20--</i>		\$ —
<i>Investment during June</i>		15,000
<i>Total investment</i>		\$15,000
<i>Less: Net loss for June</i>	\$2,000	
<i>Withdrawals for June</i>	7,000	
<i>Decrease in capital</i>		(9,000)
<i>Efran Lopez, capital, June 30, 20--</i>		\$ 6,000

Problem 2-8B

	<u>Assets</u>	=	<u>Liabilities</u>	+	<u>Owner's Equity</u>
1.	\$22,860		\$ 4,605		\$18,255
2.	\$27,425		\$ 8,515		\$18,910
3.	\$25,235		\$10,165		\$15,070

Problem 2-9B: See page 16

Problem 2-10B

David Segal
Income Statement
 For Month Ended October 31, 20--

<i>Revenues:</i>		
<i>Service fees</i>		\$2,700
<i>Expenses:</i>		
<i>Rent expense</i>		650
<i>Net income</i>		\$2,050

Problem 2-9B

Assets		= Liabilities +		Owner's Equity		
(Items Owned)		(Amts. Owed)	(Owner's Investment)			(Earnings)
Cash + Receivable	Office Supplies + Prepaid Insurance	Accounts Payable	D. Segal, Capital	- Drawing	+ Revenues - Expenses	Description
(a) 15,000			15,000			
(b) (1,800)	3,800	2,000				
(c) (1,000)	1,000					
(d) 1,700					2,700	Service fees
(e) (1,800)		(1,800)				
(f) (650)					650	Rent expense
(g) (150)				150		
Bal. 11,300	3,800	200	15,000	150	2,700	650

Cash	\$11,300	Accounts Payable	\$ 200
Accounts Receivable	1,000	David Segal, Capital	15,000
Office Supplies	3,800	David Segal, Drawing	(150)
Prepaid Insurance	1,000	Service Fees	2,700
Total Assets	<u>\$17,100</u>	Rent Expense	<u>(650)</u>
		Total Liabilities and Owner's Equity	<u>\$17,100</u>

Problem 2-11B

David Segal

Statement of Owner's Equity

For Month Ended October 31, 20--

<i>David Segal, capital, October 1, 20--</i>		\$ —
<i>Investment during October</i>		15,000
<i>Total investment</i>		\$15,000
<i>Net income for October</i>	\$2,050	
<i>Less withdrawals for October</i>	150	
<i>Increase in capital</i>		1,900
<i>David Segal, capital, October 31, 20--</i>		\$16,900

Problem 2-12B

David Segal

Balance Sheet

October 31, 20--

Assets		Liabilities	
<i>Cash</i>	\$11,300	<i>Accounts payable</i>	\$ 200
<i>Accounts receivable</i>	1,000		
<i>Office supplies</i>	3,800	Owner's Equity	
<i>Prepaid insurance</i>	1,000	<i>David Segal, capital</i>	16,900
<i>Total assets</i>	\$17,100	<i>Total liab. & owner's equity</i>	\$17,100

MANAGING YOUR WRITING

The students should focus on the following differences:

1. An expense is an outflow of assets or increase in liabilities as a result of the efforts made to earn revenues. A withdrawal is an outflow of assets for the owner's personal use. The withdrawal is not related to the earning process.
2. A withdrawal that increases a liability would be unusual. Expenses often increase liabilities.

The student should focus on the following similarity:

1. Expenses and withdrawals reduce owner's equity.

Mastery Problem

1.

	Assets				=	Liabilities (Amts. Owed)		+	Owner's Equity				
	Accts. + Rec.	Sup-plies	Prepaid Ins.	Tools + Van		Accts. Payable			(Owner's Investment) L. Vozniak, Capital	-	Drawing	+	(Earnings) Rev. - Exp.
(a)	8,000						8,000						Rent expense
(b)	(150)										150		
(c)	(5,000)			5,000									
(d)			600			600							
(e)	(200)	300				100							
(f)	(100)										100		Wages expense
(g)	(75)										75		Adver. expense
(h)	(480)		480										
(i)	800									800			Cleaning fees
(l)		500								500			Cleaning fees
(k)	(40)										40		Phone expense
(l)	200	(200)											
(m)	(150)										150		Wages expense
(n)	(200)					(200)							
(o)	600	200								800			Cleaning fees
(p)	(100)								100				
2.	3,105	500	300	480	600	500	8,000	100	2,100	515			
Bal.													

Mastery Problem (Continued)

3.

We Do Windows
Income Statement
For Month Ended July 31, 20--

Revenues:		
Cleaning fees		\$2,100
Expenses:		
Wages expense	\$250	
Rent expense	150	
Advertising expense	75	
Phone expense	40	
Total expenses		515
Net income		\$1,585

4.

We Do Windows
Statement of Owner's Equity
For Month Ended July 31, 20--

Lisa Vozniak, capital, July 1, 20--		\$ —
Investment in July		8,000
Total investment		\$8,000
Net income for July	\$1,585	
Less withdrawals for July	100	
Increase in capital		1,485
Lisa Vozniak, capital, July 31, 20--		\$9,485

Challenge Problem

Cash from customers		\$3,700
Cash paid for wages	\$450	
Cash paid for rent	300	
Cash paid for utilities	50	
Cash paid for insurance	600	
Cash paid for supplies	100	
Cash paid for phone	35	
Total cash paid for operating items		1,535
Difference between cash received from customers and cash paid for goods and services		\$2,165

Yes, there is a difference of \$2,000. Net income does a better job of measuring profits because it offers a better matching of revenues and expenses. However, cash flows are important. If you don't have enough cash to pay your bills, you will go out of business.