

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									
Assets	=	Liabilities	+	Capital	-	Drawing	+	Revenues	-	Expenses	Description
Bal. from E 2-3A											
(d)	32,200	5,200		27,000							
(e)	1,500							1,500			Service fees
(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		\$31,586	Total Liabilities								
			Capital								
			Drawing								
			Revenues								
			Expenses								
			Total Liabilities and Owner's Equity								

<u>Account</u>	<u>Classification</u>	<u>Financial Statement</u>
Cash	<i>A</i>	<i>BS</i>
Rent Expense	<i>E</i>	<i>IS</i>
Accounts Payable	<i>L</i>	<i>BS</i>
Service Fees	<i>R</i>	<i>IS</i>
Supplies	<i>A</i>	<i>BS</i>
Wages Expense	<i>E</i>	<i>IS</i>
Ramon Martinez, Drawing	<i>OE</i>	<i>SOE</i>
Ramon Martinez, Capital	<i>OE</i>	<i>SOE, BS</i>
Prepaid Insurance	<i>A</i>	<i>BS</i>
Accounts Receivable	<i>A</i>	<i>BS</i>

[illegible]

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 +		Owner's Equity			
(Items Owned)					(Amts. Owed)		(Owner's Investment)		(Earnings)	
Cash	+ Accounts Receivable	+ Office Supplies	+ Prepaid Insurance		Accounts Payable	+ J. Pembroke, Capital	- J. Pembroke, Drawing	+ Revenues	- Expenses	Description
18,000						18,000				
(2,000)		4,600			2,600					
(1,200)			1,200							
1,300	2,000							3,300		Service fees
(2,300)					(2,300)					
(750)										Rent expense
(100)							100		750	
12,950	2,000	4,600	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		\$20,750			Rent Expense		(750)			

Problem 2-11A

<i>Jay Pembroke</i>		
<i>Statement of Owner's Equity</i>		
<i>For Month Ended April 30, 20--</i>		
<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

<i>Jay Pembroke</i>			
<i>Balance Sheet</i>			
<i>April 30, 20--</i>			
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 2-7B

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

<i>David Segal</i>		
<i>Income Statement</i>		
<i>For Month Ended October 31, 20--</i>		
<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	1,000								2,700	Service fees
(e) (1,800)					(1,800)					
(f) (650)									650	Rent expense
(g) (150)								150		
Bal. 11,300	1,000	3,800	1,000		200		15,000	150	2,700	650
Cash					Accounts Payable		Owner's Equity			
Accounts Receivable					David Segal, Capital		\$ 200			
Office Supplies					David Segal, Drawing		15,000			
Prepaid Insurance					Service Fees		(150)			
Total Assets					Rent Expense		2,700			
					Total Liabilities and Owner's Equity		(650)			
							\$17,100			

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 +				Owner's Equity			
(Items Owned)										(Amts. Owed)				(Owner's Investment)			
Accts. + Rec.		Sup-plies	+ Ins.	Prepaid	+ Tools	+ Van	= Accts. Payable				L. Vozniak, Capital		- Drawing	+ Rev.		- Exp.	Description
Cash																	
8,000											8,000						
(150)															150		Rent expense
(5,000)						5,000											
					600					600							
(200)		300								100							
(100)																	
(75)															100		Wages expense
(480)				480											75		Adver. expense
800																	
	500													800			Cleaning fees
														500			Cleaning fees
(40)															40		Phone expense
200	(200)																
(150)															150		Wages expense
(200)									(200)								
600	200													800			Cleaning fees
(100)													100				
3,105	500	300	480		600	5,000				500	8,000		100	2,100	515		
2. 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.