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Money withdrawn by owner	John Smith, Drawing	OE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

Exercise 2-2A

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

Exercise 2-3A

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

Exercise 2-4A

							Own	er's l	Equity			
	Assets	=	Liabilities	+	Capital	_	Drawing	+	Revenues	-	Expenses	Description
Bal. from E 2-3A												
(d)	32,200		5,200		27,000	_						
(e)	1,500					_		<u>-</u>	1,500			Service fees
(f)	(600)					<u> </u>		<u>-</u>			(600)	Rent expense
(g)	(64)					_		<u>-</u>			(64)	Telephone exp.
(h)	(1,000)					<u> </u>	(1,000)	<u>-</u>				
(i)	750					_		<u>-</u>	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 As	sets	<u>\$</u>	<u>31,586</u>	Total	Liabilities				\$ 5,200			
				Capita	al				27,000			
				Drawi	ing				(1,000)			
				Rever	nues				2,250			
				Exper					<u>(1,864</u>)			
				Total	Liabilities an	id Ow	ner's Equit	t y	<u>\$31,586</u>			

Exercise 2-5A

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

Exercise 2-6A

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
Net income for June	\$10,000	
Less withdrawals for June	8,000	
Increase in capital		2,000
Betsy Ray, capital, June 30, 20		\$22,000

Exercise 2-7A

Betsy Ray's Accounting Service

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

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

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Problem 2-9A

Total Assets

<u>\$20,750</u>

CHAPTER 2

Ī			A	sset	s			=	Liabilities	+			Owner's	Εqι	uity		
	(Items Owned)				(Amts. Owed)	(Amts. Owed)	(Owner's	(Owner's Investment)		(Earnings)							
	Cash	+	Accounts Receivable	+	Office Supplies	+	Prepaid Insurance	=	Accounts Payable	+	J. Pembroke, Capital	_	J. Pembroke, Drawing	+		- Expenses	Description
(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 exp.
(g)	(100)											_	100	_			
Bal.	12,950	= =	2,000	: =	4,600	= =	1,200	= =	300	= =	18,000	_	100	= :	3,300	750	
Cash	ı			\$1	2,950		Accou	nts	Payable				\$ 30	00			
Acco	unts Rece	eiva	ble		2,000				roke, Capi	ital			18,00	00			
Offic	e Supplies	•			4,600		Jay Pe	mb	roke, Drav	vin	g		(10	<u> </u>			
Prepa	aid Insura	nce)		<u>1,200</u>		Servic	e F	ees				3,30	00			

Total Liabilities and Owner's Equity

(750)

\$20,750

Rent Expense

Problem 2-11A

Jay Pembroke

Statement of Owner's Equity

For Month Ended April 30, 20--

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

Problem 2-12A

Jay Pembroke Balance Sheet

April 30, 20--

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

Exercise 2-1B

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

Exercise 2-2B

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

Exercise 2-3B

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

Exercise 2-4B

							Owne	r's E	quity			
	Assets	=	Liabilities	+	Capital	_	Drawing	+	Revenues	_	Expenses	Description
Bal. from E 2-3B	22 500		2.500		20,000							
(d)	32,500		2,500		30,000					-		
(e)	3,000					_		<u>.</u>	3,000	_		Service fees
(f)	(1,000)							<u>.</u>		<u>-</u>	1,000	Rent expense
(g)	(68)			<u> </u>						_	68	Telephone exp.
(h)	(800)						800			_		
(i)	900							<u>.</u>	900	<u>-</u>		Service fees
(j)	(500)							<u>.</u>		<u>-</u>	500	Wages expense
(k)	500					<u> </u>		-		<u>-</u>		
	(500)									_		
Bal.	34,032	= =	2,500	_ =	30,000	= =	800	:	3,900	: :	1,568	
Total Ass	ets	<u>\$3</u>	4,032	Total L	iabilities				\$ 2,500			
				Capita	1				30,000			
				Drawin	g				(800)			
				Reven	ues				3,900			
			ı	Expens	ses				<u>(1,568</u>)			
				Total L	iabilities and	d Own	er's Equity	′	<u>\$34,032</u>			

Exercise 2-5B

<u>Account</u>	Classification	Financial Statement
Cash	A	BS
Rent Expense	E	IS
Accounts Payable	L	BS
Service Fees	R	IS
Supplies	A	B\$
Wages Expense	E	IS
Amanda Wong, Drawing	OE	SOE
Amanda Wong, Capital	OE	SOE, BS
Prepaid Insurance	A	BS
Accounts Receivable	A	B\$

Exercise 2-6B

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

	15,000
	\$15,000
\$6,000	
7,000	
	(1,000)
	\$14,000
	7,000

Exercise 2-7B

Lopez Financial Consulting

Statement of Owner's Equity

For Month Ended June 30, 20--

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

Problem 2-8B

	<u>Assets</u>	=	<u>Liabilities</u>	+	Owner's Equity
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--

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

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CHAPTER 2

Problem 2-9B

ſ			Α	sset	ts			=	Liabilities	+			Owner's	Εqι	uity		
			(Item	s Ov	vned)				(Amts. Owed)		(Owner's	Inve	estment)		(Earn	ings)	
	Cash	+	Accounts Receivable	+	Office Supplies	+	Prepaid Insurance	=	Accounts Payable	+	D. Segal, Capital	_	D. Segal, 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	
Offic Prepa	ounts Rece e Supplies aid Insural ' Assets	•			\$11,300 1,000 3,800 1,000 <u>\$17,100</u>				David S Service Rent Ex	ega ega Fee pen	I, Capital I, Drawing es			_	200 15,000 (150) 2,700 <u>(650</u>) 17,100		

Problem 2-11B

David Segal

Statement of Owner's Equity

For Month Ended October 31, 20--

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

Problem 2-12B

David Segal

Balance Sheet

October 31, 20--

Assets		Liabilities	
Cash	\$11,300	Accounts payable	\$ 200
Accounts receivable	1,000		
Office supplies	3,800	Owner's Equity	
Prepaid insurance	1,000	David Segal, capital	16,900
Total assets	\$17,100	Total liab. & owner's equity	\$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 In				(Earnings)						
Ca	sh		ccts. Rec.	Su + pli	p- es	+	Prepaid Ins.	+	Tools	+	Van	Accts. = Payable	+	L. Vozniak, Capital	_	L. Vozniak, Drawing	+	Rev.	– Exp.	Description	
8,0	000														8,000						
(1	150)																			150	Rent exp.
(5,0	000)					_					5,000					_					
						_			600				600			_		_			-
(2	200)			30	00	_							100			_		_			
(1	100)					_										_				100	Wages exp.
((75)					_										_		_		75	Adver. exp.
(4	180)					_	480									_		_			-
8	300					_										_		_	800		Cleaning fees
			500			_										_			500		Cleaning fees
((40)					_										_				40	Telephone ex
2	200	(2	200)			_										_					
(1	150)					_										_				150	Wages exp.
(2	200)					_							(200)			_					
6	500		200			_				_						_		_	800		Cleaning fees
(1	100)					_				_						_	100	_			
3,1	105		500	30	00		480		600		5,000		500		8,000		100		2,100	515	

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	
Telephone 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

Mastery Problem (Concluded)

5

We Do Windows

Balance Sheet

July 31, 20--

Assets		Liabilities	
Cash	\$3,105	Accounts payable	\$ 500
Accounts receivable	500		
Supplies	300		
Prepaid insurance	480		
Tools	600	Owner's Equity	
Van	5,000	Lisa Vozniak, capital	9,485
Total assets	\$9,985	Total liab. & owner's equity	\$9,985

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 telephone	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.