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CHAPTER 2

ANALYZING TRANSACTIONS: THE ACCOUNTING EQUATION

REVIEW QUESTIONS

- 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.

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

5

CHAPTER 2

6

Exercise 2-1A

ltem	<u>Account</u>	Classification
Money in bank	Cash	Α
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>	=	Liabilities	+	Owner's Equity
(a)	27,000			. <u> </u>	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

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Exercise 2-4A

				_			Own	er's	Equity		
	Assets	=	Liabilities	+	Capital	_	Drawing	+	Revenues –	Expenses	Description
Bal.											
om											
-3A d)	32,200		5,200		27,000						
e)	1,500					_		-	1,500		Service fees
:) _	(600)					_		-		(600)	Rent expense
g) _	(64)			<u> </u>		_		-		(64)	Telephone exp.
ı) _	(1,000)					_	(1,000)	-			
) _	750					_		_	750		Service fees
) _	(1,200)					_		_		(1,200)	Wages expense
x) _	400					_		-			
_	(400)					_		-			
al. =	31,586	_ =	5,200	_ =	27,000	_	(1,000)	=	2,250	(1,864)	
al Ass	ets	<u>\$</u>	<u>31,586</u>	Total	Liabilities				\$ 5,200		
				Capita	al				27,000		
				Drawi					(1,000)		
				Reven	nues				2,250		
				Exper	ises				<u>(1,864</u>)		
				Total	Liabilities an	nd Ow	ner's Eauit	t v	<u>\$31,586</u>		

Exercise 2-5A

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

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
	ll	

Exercise 2-7A

Statement of Owner's Equity						
For Month Ended Jun	e 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>	=	Liabilities	+	Owner's Equity
1.	\$26,960		\$ 7,550		\$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

1			Assets		= Liabilities	+	Owner's	Equity		
		(Iten	ns Owned)		(Amts. Owed)		's Investment)	(Ear	nings)	
	Cash	Accounts + Receivable	Office + Supplies	Prepaid + Insurance	Accounts = Payable	J. Pembroke + Capital	, J. Pembroke, – Drawing	+ Revenues	– 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	ounts Rece	aivahla	\$12,950 2,000		ints Payable		\$ 30			
	e Supplies		2,000 4,600	-	embroke, Cap		18,00			
	aid Insura		<u>1,200</u>	•	embroke, Dra	wing	(10			
-	Assets		<u>\$20,750</u>		e Fees		3,30			
10101	A00013		<u> 420,100</u>	Rent E	Expense		(75	<u>()</u>		

Total Liabilities and Owner's Equity

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

Problem 2-11A

Jay Pembroke		
Statement of Owner's I	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	Α
Accounts Receivable	Α
Bill Jones, Capital	OE

Exercise 2-2B

<u>Assets</u>	=	Liabilities	+	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>	=	Liabilities	+	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

C	
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Ð	
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Exercise 2-4B

		Owner's Equity						Owner's Equity		
	Assets	= Liabilitie	s +	Capital	_	Drawing	+	Revenues	 Expenses 	Description
3al.										
om										
2-3B (d)	32,500	2,500		30,000						
e)	3,000				_		-	3,000		Service fees
			<u> </u>		_		-	3,000		
f)	(1,000)						-		1,000	Rent expense
g)	(68)				_		_		68	Telephone exp.
ר)	(800)					800	_			
i)	900						_	900		Service fees
j)	(500)	<u> </u>			_		_		500	Wages expense
()	500				_		_			
	(500)				_		_			
al.	34,032	2,500		30,000	=	800	=	3,900	1,568	
al Ass	sets	<u>\$34,032</u>	Total I	Liabilities				\$ 2,500		
			Capita	al de la constant				30,000		
			Drawii	ng				(800)		
			Reven	ues				3,900		
			Expen	ses				<u>(1,568</u>)		
			Total l	Liabilities and	d Owr	er's Fauit	/	<u>\$34,032</u>		

Exercise 2-5B

Account	Classification	Financial Statement
Cash	Α	BS
Rent Expense	E	IS
Accounts Payable	L	BS
Service Fees	R	IS
Supplies	Α	BS
Wages Expense	Ε	IS
Amanda Wong, Drawing	OE	SOE
Amanda Wong, Capital	OE	SOE, BS
Prepaid Insurance	Α	BS
Accounts Receivable	Α	BS

Exercise 2-6B

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
Net income for June	\$6,000	
Less withdrawals for June	7,000	
Decrease in capital		(1,000)
Efran Lopez, capital, June 30, 20		\$14,000

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Exercise 2-7B

Lopez Financial Cons Statement of Owner's		
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>	=	Liabilities	+	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

Net income

David Seg	al
Income State	ment
For Month Ended Oc	tober 31, 20
Revenues:	
Service fees	\$2,700
Expenses:	
Rent expense	650

\$2,050

		А	ssets			=	Liabilities	+		Owner's	s Equ	uity		
		(Item	s Owned)				(Amts. Owed)		(Owner's	Investment)		(Ear		
	Cash	Accounts + Receivable	Office + Supplies		Prepaid surance	Accounts D. Se	D. Segal, Capital	D. Segal, – Drawing	+	_	– 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 Insura Assets	S	\$11,300 1,000 3,800 <u>1,000</u> <u>\$17,100</u>				David S Service Rent Ex	ega ega Fee pen	l, Capital l, Drawing es		\$	200 15,000 (150) 2,700 <u>(650</u>) <u>17,100</u>		

Problem 2-11B

David Segal								
Statement of Owner's E	quity							
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	\$17,100 Total liab. & owner's equity			

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.

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	CHAPTER
	R 2

Γ		Assets								=	Liabilities						ty				
		(Items Owned)									(Amts. Owed)		(Owner's Investment)				(Earnir	ngs)			
	Cash	+	Accts. Rec.	+	Sup- plies	+	Prepaid Ins.	+	Tools	+	Van	=	Accts. Payable	+	L. Vozniak, Capital	_	L. Vozniak, Drawing	+		– Exp.	Description
)	8,000	_		_				_							8,000						
) _	(150)			_				_												150	Rent exp.
)	(5,000)							_			5,000										
)				_				_	600				600								
)	(200)	_			300			_					100								
)	(100)	_						_												100	Wages exp.
)	(75)	_		_				_												75	Adver. exp.
)	(480)	_					480	_													
) _	800	_						_											800		Cleaning fees
_			500	_				_											500		Cleaning fees
) _	(40)			_				_												40	Telephone exp
_	200		(200)	_				_													
ı) _	(150)			_				_												150	Wages exp.
)	(200)			_				_					(200)								
)	600		200					_											800		Cleaning fees
_	(100)							_									100				
	3,105		500		300		480		600		5,000		500		8,000		100		2,100	515	

Mastery Problem (Continued)

3.

Income Statement For Month Ended July 31, 20--**Revenues: Cleaning fees** \$2,100 Expenses: Wages expense \$250 150 Rent expense 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

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Mastery Problem (Concluded)

5.

		Vindows e 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						

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Challenge Problem

	\$3,700
\$450	
300	
50	
600	
100	
35	
	1,535
	\$2,165
	300 50 600 100

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.

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