

# Chapter 2

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## Transaction Analysis

### Ethics Check

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**(5-10 min.) EC 2-1**

- a. Due care
- b. Integrity
- c. Due care
- d. Objectivity and independence

## Short Exercises

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**(5 min.) S 2-1**

- a. No (no dollars involved)
- b. Yes
- c. No (no dollars involved yet)
- d. Yes
- e. Yes
- f. Yes
- g. No
- h. Yes

**(5 min.) S 2-2**

- a. L
- b. E
- c. A
- d. L
- e. E
- f. A
- g. A
- h. L
- i. A
- j. E

(10 min.) S 2-3

- G 1. Debit
- A 2. Expense
- F 3. Net income
- C 4. Ledger
- D 5. Posting
- I 6. Normal balance
- J 7. Payable
- E 8. Journal
- H 9. Receivable
- B 10. Owners' equity

(5 min.) S 2-4

Anderson's payment was *not* an expense.

Anderson acquired an *asset*, Equipment, because the computer is an economic resource of the business.

(5 min.) S 2-5

- a. Purchase of asset on account  
Borrow money
- b. Declaration and payment of dividends to owners  
Expense transaction (ex: received and paid utility bill)
- c. Pay a liability  
Return an asset purchased on account
- d. Issuance of stock  
Revenue transaction (ex: provided services on account or for cash)
- e. Purchase of asset for cash  
Sale of asset for cash  
Collection of an account receivable

(Answers may vary.)

(5 min.) S 2-6

	<u>Assets</u>		<u>Liabilities</u>		<u>Stk. Equity</u>	
	<u>Incr</u>	<u>Decr</u>	<u>Incr</u>	<u>Decr</u>	<u>Incr</u>	<u>Decr</u>
Jan 2	X		X			
Jan 4	X				X	
Jan 10	X				X	
Jan 15		X		X		
Jan 18	X				X	
Jan 21	X	X				
Jan 31		X				X

(5 min.) S 2-7

- a.    \$19,200 (\$17,000 + \$2,200 + \$4,600 – \$4,600)  
b.    \$ 2,200

(5-10 min.) S 2-8

*Reqs. 1, 2*

<b>Cash</b>		<b>Computer Equipment</b>	
250,000		106,000	
<b>Accounts Payable</b>		<b>Common Stock</b>	
	106,000		250,000

*Req. 3*

Total debits                    =    \$356,000 (\$250,000 + \$106,000)

Total credits                   =    \$356,000 (\$106,000 + \$250,000)

(5-10 min.) S 2-9

<b>Cash</b>	
29,000	4,000
7,100	
<b>Bal.    32,100</b>	

**Journal**

<b>DATE</b>	<b>ACCOUNT TITLES AND EXPLANATION</b>	<b>DEBIT</b>	<b>CREDIT</b>
Jan. 15	Cash .....	31,000	
	Note Payable .....		31,000
	Borrowed money from the bank.		
22	Accounts Receivable .....	16,800	
	Service Revenue .....		16,800
	Performed service on account.		
28	Cash .....	12,000	
	Accounts Receivable .....		12,000
	Received cash on account.		
29	Utilities Expense .....	1,400	
	Cash .....		1,400
	Paid utility bill.		
31	Salary Expense .....	9,000	
	Cash .....		9,000
	Paid salary expense.		

**Req. 1**

Journal			
DATE	ACCOUNT TITLES AND EXPLANATION	DEBIT	CREDIT
	Supplies.....	5,200	
	Accounts Payable.....		5,200
	Purchased supplies on account.		
	Accounts Payable.....	1,750	
	Cash.....		1,750
	Paid cash on account.		

**Req. 2**

Accounts Payable	
1,750	5,200
Bal.	3,450

**Req. 3**

The business owes \$3,450, as shown in the Accounts Payable account.

**Req. 1**

<b>Journal</b>			
<b>DATE</b>	<b>ACCOUNT TITLES AND EXPLANATION</b>	<b>DEBIT</b>	<b>CREDIT</b>
	Accounts Receivable .....	4,900	
	Service Revenue.....		4,900
	Performed service on account.		
	Cash .....	2,300	
	Accounts Receivable .....		2,300
	Received cash on account.		

**Req. 2**

<b>Cash</b>		<b>Accounts Receivable</b>		<b>Service Revenue</b>	
	<b>2,300</b>				
		<b>4,900</b>	<b>2,300</b>		<b>4,900</b>
<b>Bal.</b>	<b>2,300</b>	<b>Bal.</b>	<b>2,600</b>		<b>Bal. 4,900</b>



Journal			
DATE	ACCOUNT TITLES AND EXPLANATION	DEBIT	CREDIT
July 1	Cash..... Common Stock..... Issued stock to owner.	10,000	10,000
5	Accounts Receivable ..... Service Revenue ..... Provided (sold) services on account.	5,000	5,000
9	Office Supplies ..... Accounts Payable..... Purchased supplies on account.	500	500
10	Cash..... Service Revenue ..... Provided (sold) services for cash.	2,100	2,100
12	Cash..... Accounts Receivable..... Collected cash on account.	5,000	5,000
24	Accounts Payable ..... Cash ..... Paid on account.	500	500
25	Utilities Expense..... Cash ..... Paid expenses.	200	200
30	Office Furniture ..... Note Payable ..... Purchased furniture with note payable.	3,500	3,500
31	Salary Expense..... Cash ..... Paid payroll.	3,000	3,000

**Navy Port Company  
Trial Balance  
December 31, 2016**

ACCOUNT	DEBIT	CREDIT
	<i>Millions</i>	
Cash.....	\$ 4	
Other assets.....	23	
Accounts payable.....		\$ 5
Other liabilities.....		1
Stockholders' equity .....		6
Revenues.....		39
Expenses.....	<u>24</u>	<u>    </u>
Total.....	<u>\$51</u>	<u>\$51</u>

Navy Port Company's net income: \$15 million (\$39 – \$24)

1. Total assets = \$94,000 (\$4,000 + \$14,000 + \$1,000 + \$48,000 + \$27,000)
2. Total liabilities = \$80,000 (\$54,000 + \$26,000)
3. Net income (loss) = (\$8,000) (\$31,600 – \$29,000 – \$9,000 – \$1,600)

1. Total debits = \$ 90,400 (\$133,600 + \$4,800 – \$48,000)

Total credits = \$133,600

Difference = \$ 43,200 (\$133,600 – \$90,400);

\$43,200 / 9 = \$4,800 (an integer), which suggests either a transposition or a slide.

2. Total debits = \$160,600 (\$133,600 + \$41,000 – \$14,000)

Total credits = \$133,600

Difference = \$ 27,000 (\$160,600 – \$133,600);

\$27,000 / 9 = \$3,000 (an integer), which suggests either a transposition or a slide.

3. Total debits = \$119,600 (\$133,600 – \$14,000)

Total credits = \$147,600 (\$133,600 + \$14,000)

Difference = \$ 28,000 (\$147,600 – \$119,600)

\$28,000 / 2 = \$14,000 (original amount of accounts receivable).

## Exercises

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(10-15 min.) E 2-17A

**TO:** Home Office

**FROM:** Laura Sprague, Store Manager

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During the first week, I used the store's beginning cash to purchase equipment and supplies. I signed a note payable to buy land and a building. After all these transactions, the store's balance sheet appears as follows:

**Designs Unlimited  
Columbus Store  
Balance Sheet  
Date**

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<b>ASSETS</b>		<b>LIABILITIES</b>	
Cash	\$ 55,400	Note payable*	\$275,000
Supplies	6,600		
Land	76,000	<b>STOCKHOLDERS' EQUITY</b>	
Building	199,000	Common stock	<u>98,000</u>
Equipment	<u>36,000</u>	Total liabilities and	
Total assets	<u><u>\$373,000</u></u>	stockholders' equity	<u><u>\$373,000</u></u>

**\*\$76,000 + \$199,000 = \$275,000**

<b>Cash</b>	
<u>98,000</u>	<u>36,000</u>
	<u>6,600</u>
<u>55,400</u>	

- a. No effect on total assets. Increase in cash offsets the decrease in land.**
- b. No effect on total assets. Increase in cash offsets the decrease in accounts receivable.**
- c. No effect on total assets. Increase in land offsets the decrease in cash.**
- d. Increased assets. (Cash)**
- e. No effect. (A personal transaction)**
- f. Increased assets. (Equipment)**
- g. Increased assets. (Office supplies)**
- h. Increased assets. (Cash)**
- i. Decreased assets. (Cash)**
- j. Decreased assets. (Cash)**

## Req. 1

## Analysis of Transactions

ASSETS					=	LIABILITIES	+	STOCKHOLDERS' EQUITY		
Date	Cash	+ Accounts Receivable	+ Medical Supplies	+ Land	=	Accounts Payable	+ Note Payable	+ Common Stock	+ Retained Earnings	Type of Stockholders' Equity Transaction
July 6	148,000							148,000		Issued stock
9	(66,000)			66,000						
12			2,000			2,000				
15	Not a transaction of the business.									
15-31	4,600	4,600							9,200	Service revenue
15-31	(2,900)								(2,900)	Salary expense
	(1,500)								(1,500)	Rent expense
	(700)								(700)	Utilities expense
31	600		(600)							
31	36,000						36,000			
31	<u>(1,500)</u>	<u>          </u>	<u>          </u>	<u>          </u>		<u>(1,500)</u>	<u>          </u>	<u>          </u>	<u>          </u>	
Bal.	<u>116,600</u>	<u>4,600</u>	<u>1,400</u>	<u>66,000</u>	=	<u>500</u>	<u>36,000</u>	<u>148,000</u>	<u>4,100</u>	
<div><div></div><div></div><div></div><div></div></div> <div>\$188,600</div>					=	<div><div></div><div></div><div></div><div></div></div> <div>\$188,600</div>				

**Req. 2**

- a.    **\$188,600**
- b.    **\$4,600**
- c.    **\$36,500 (\$500 + \$36,000)**
- d.    **\$152,100 (\$188,600 – \$36,500, or \$148,000 + \$4,100)**
- e.    **\$4,100 (Revenue, \$9,200 minus expenses, \$5,100 equals net income, \$4,100.)**

**Req. 1****Journal**

<b>DATE</b>	<b>ACCOUNT TITLES AND EXPLANATION</b>	<b>DEBIT</b>	<b>CREDIT</b>
<b>July 6</b>	<b>Cash.....</b>	<b>148,000</b>	
	<b>    Common Stock.....</b>		<b>148,000</b>
	<b>Issued stock to owner.</b>		
<b>9</b>	<b>Land.....</b>	<b>66,000</b>	
	<b>    Cash .....</b>		<b>66,000</b>
	<b>Purchased land.</b>		
<b>12</b>	<b>Medical Supplies .....</b>	<b>2,000</b>	
	<b>    Accounts Payable .....</b>		<b>2,000</b>
	<b>Purchased supplies on account.</b>		
<b>15</b>	<b>Not a transaction of the business.</b>		
<b>15-31</b>	<b>Cash.....</b>	<b>4,600</b>	
	<b>Accounts Receivable .....</b>	<b>4,600</b>	
	<b>    Service Revenue .....</b>		<b>9,200</b>
	<b>Performed service for cash and on account.</b>		
<b>15-31</b>	<b>Salary Expense.....</b>	<b>2,900</b>	
	<b>Rent Expense.....</b>	<b>1,500</b>	
	<b>Utilities Expense.....</b>	<b>700</b>	
	<b>    Cash .....</b>		<b>5,100</b>
	<b>Paid expenses.</b>		
<b>31</b>	<b>Cash.....</b>	<b>600</b>	
	<b>    Medical Supplies.....</b>		<b>600</b>
	<b>Sold supplies.</b>		
<b>31</b>	<b>Cash.....</b>	<b>36,000</b>	
	<b>    Note Payable .....</b>		<b>36,000</b>
	<b>Borrowed money.</b>		
<b>31</b>	<b>Accounts Payable .....</b>	<b>1,500</b>	
	<b>    Cash .....</b>		<b>1,500</b>
	<b>Paid on account.</b>		



**Req. 1****Cash**

July 6	148,000	July 9	66,000
15-31	4,600	15-31	5,100
31	600	31	1,500
31	36,000		
Bal.	116,600		

**Accounts Receivable**

July 15-31	4,600	
Bal.	4,600	

**Medical Supplies**

July 12	2,000	July 31	600
Bal.	1,400		

**Land**

July 9	66,000	
Bal.	66,000	

**Accounts Payable**

July 31	1,500	July 12	2,000
		Bal.	500

**Note Payable**

	July 31	36,000
	Bal.	36,000

**Common Stock**

	July 6	148,000
	Bal.	148,000

**Service Revenue**

	July 15-31	9,200
	Bal.	9,200

**Salary Expense**

July 15-31	2,900	
Bal.	2,900	

**Rent Expense**

July 15-31	1,500	
Bal.	1,500	

**Utilities Expense**

July 15-31	700	
Bal.	700	

**Req. 2**

**Dr. Kristine Cohen, P.C.  
Trial Balance  
July 31, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$116,600	
Accounts receivable .....	4,600	
Medical supplies .....	1,400	
Land .....	66,000	
Accounts payable .....		\$ 500
Note payable .....		36,000
Common stock .....		148,000
Service revenue .....		9,200
Salary expense.....	2,900	
Rent expense .....	1,500	
Utilities expense .....	<u>700</u>	
Total .....	<u>\$193,700</u>	<u>\$193,700</u>

**Req. 3**

Total assets (\$116,600 + \$4,600 + \$1,400 + \$66,000) .....	\$188,600
Total liabilities (\$500 + \$36,000) .....	<u>(36,500)</u>
Total stockholders' equity (\$148,000 + \$4,100*) .....	<u>\$152,100</u>

**\*Net income = \$4,100 (\$9,200 – \$2,900 – \$1,500 – \$700)**

**Req. 1**

<b>Journal</b>			
<b>ACCOUNT TITLES AND EXPLANATION</b>		<b>DEBIT</b>	<b>CREDIT</b>
1. Cash .....		8,900	
Common Stock .....			8,900
Issued common stock.			
2. Cash .....		10,000	
Note Payable .....			10,000
Borrowed money; signed note payable.			
3. Supplies .....		1,000	
Accounts Payable .....			1,000
Purchased supplies on account.			
4. Land .....		36,000	
Cash .....			12,000
Note Payable .....			24,000
Purchased land by paying cash and signing a note payable.			
5. Cash .....		75	
Supplies .....			75
Sold supplies for cash.			
6. Accounts Payable .....		300	
Cash .....			300
Paid cash on account.			
7. Equipment .....		3,700	
Cash .....			3,700
Paid cash for equipment.			

**Cash balance = \$2,975 (\$8,900 + \$10,000 – \$12,000 + \$75 – \$300 – \$3,700)**

**Company owes \$34,700 (\$10,000 + \$1,000 + \$24,000 – \$300)**

**Req. 1**

**Custom Patio Service, Inc.**  
**Trial Balance**  
**April 30, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$18,700	
Accounts receivable .....	5,100	
Equipment .....	30,400	
Accounts payable .....		\$ 4,900
Note payable.....		24,000
Common stock .....		16,800
Retained earnings .....		2,400
Dividends .....	3,400	
Service revenue .....		21,100
Salary expense .....	8,800	
Utilities expense .....	2,200	
Delivery expense.....	<u>600</u>	
<b>Total .....</b>	<b><u>\$69,200</u></b>	<b><u>\$69,200</u></b>

**Req. 2**

**Custom Patio Service, Inc.**  
**Income Statement**  
**For the Month Ended April 30, 2016**

Service revenue .....	\$21,100
Salary expense .....	\$8,800
Utilities expense .....	2,200
Delivery expense.....	<u>600</u>
<b>Total expenses .....</b>	<b><u>11,600</u></b>
<b>Net income.....</b>	<b><u>\$ 9,500</u></b>

**Req. 1**

**Harper, Inc.  
Trial Balance  
September 30, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$15,000*	
Accounts receivable .....	12,100*	
Inventory .....	16,800	
Supplies .....	200	
Land .....	50,000	
Accounts payable .....		\$14,940*
Common stock .....		47,200*
Sales revenue .....		40,000
Insurance expense .....	3,700*	
Salary expense .....	2,400	
Utilities expense .....	1,040*	
Rent expense .....	900	
<b>Total .....</b>	<b><u>\$102,140</u></b>	<b><u>\$102,140</u></b>

**\*Computations:**

**Cash: \$14,500 + \$500 = \$15,000**

**Accounts Receivable: \$12,600 – \$500 = \$12,100**

**Accounts Payable: \$12,000 + \$3,000 – \$300 + \$240 = \$14,940**

**Common Stock: \$47,100 + \$100 = \$47,200**

**Insurance Expense: \$0 + \$3,700 = \$3,700**

**Utilities Expense: \$800 + \$240 = \$1,040**

Cash			
(a)	22,500	(b)	1,600
		(d)	3,300
		(e)	850
		(g)	2,300
Bal.	14,450		

Accounts Receivable			
(f)	10,100		
Bal.	10,100		

Office Supplies			
(c)	1,400		
Bal.	1,400		

Office Furniture			
(a)	9,000		
Bal.	9,000		

Accounts Payable			
(e)	850	(c)	1,400
		Bal.	550

Common Stock			
		(a)	31,500
		Bal.	31,500

Dividends			
(g)	2,300		
Bal.	2,300		

Service Revenue			
		(f)	10,100
		Bal.	10,100

Salary Expense			
(d)	3,300		
Bal.	3,300		

Rent Expense			
(b)	1,600		
Bal.	1,600		

**Req. 1**

**Leigh Hampton, Attorney  
Trial Balance  
January 31, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$14,450	
Accounts receivable .....	10,100	
Office supplies .....	1,400	
Office furniture .....	9,000	
Accounts payable .....		\$ 550
Common stock .....		31,500
Dividends .....	2,300	
Service revenue .....		10,100
Salary expense .....	3,300	
Rent expense .....	<u>1,600</u>	
Total .....	<u>\$42,150</u>	<u>\$42,150</u>

**Req. 2**

The business performed well during January. The result of operations was net income of \$5,200, as shown by the income statement accounts:

Service revenue .....	\$ 10,100
Salary expense .....	\$3,300
Rent expense .....	<u>1,600</u>
Total expenses .....	<u>(4,900)</u>
Net income .....	<u>\$ 5,200</u>

**Req. 1***(amounts in millions)*

$$\begin{aligned} \text{Cash (X) + Other assets (21)} &= \text{Accounts payable (7) + Other} \\ &\quad \text{liabilities (6) + S/E (5) + Revenues (37)} \\ &\quad - \text{Expenses (30)} \end{aligned}$$

$$\text{Cash (X)} = \underline{4}$$

**Req. 2***(amounts in millions)*

**New Towne Company  
Trial Balance  
September 30, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$ 4	
Other assets .....	21	
Accounts payable .....		\$ 7
Other liabilities .....		6
Stockholders' equity .....		5
Revenues .....		37
Expenses .....	<u>30</u>	<u>      </u>
Total .....	<u>\$55</u>	<u>\$55</u>

**Net income is \$7 (\$37 – \$30)**



**TO:** Home Office

**FROM:** Gary Breen, Store Manager

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During the first week, I used the store's beginning cash to purchase equipment and supplies. I signed a note payable to buy land and a building. After all these transactions, the store's balance sheet appears as follows:

Summertime Fashions Orlando Store Balance Sheet Date			
ASSETS		LIABILITIES	
Cash	\$ 60,300	Note payable*	\$279,000
Supplies	5,700		
Land	79,000	STOCKHOLDERS' EQUITY	
Building	200,000	Common stock	<u>108,000</u>
Equipment	<u>42,000</u>	Total liabilities and	
Total assets	<u>\$387,000</u>	stockholders' equity	<u>\$387,000</u>



\*(\$79,000 + \$200,000) = \$279,000

Cash	
108,000	42,000
	5,700
60,300	

- a. No effect on total assets. Increase in notes receivable offsets the decrease in land.**
- b. Increased assets. (Cash)**
- c. No effect on total assets. Increase in equipment offsets the decrease in cash.**
- d. Increased assets. (Cash)**
- e. Increased assets. (Land)**
- f. Increased assets. (Accounts receivable)**
- g. Decreased assets. (Cash)**
- h. Increased assets. (Supplies)**
- i. No effect. (A personal transaction)**
- j. Decreased assets. (Cash)**

Req. 1

## Analysis of Transactions

Analysis of Transactions																
ASSETS					=	LIABILITIES		+	STOCKHOLDERS' EQUITY							
Date	Cash	+	Accounts Receivable	+	Medical Supplies	+	Land	=	Accounts Payable	+	Note Payable	+	Common Stock	+	Retained Earnings	Type of Stockholders' Equity Transaction
May 6	148,000												148,000			Issued stock
9	(59,000)						59,000									
12					1,700				1,700							
15	Not a transaction of the business.															
15-31	4,500		4,500												9,000	Service revenue
15-31	(3,200)														(3,200)	Salary expense
	(1,100)														(1,100)	Rent expense
	(1,200)														(1,200)	Utilities expense
31	300				(300)											
31	32,000										32,000					
31	<u>(1,300)</u>								<u>(1,300)</u>							
Bal.	<u>119,000</u>		<u>4,500</u>		<u>1,400</u>		<u>59,000</u>		<u>400</u>		<u>32,000</u>		<u>148,000</u>		<u>3,500</u>	
																
					\$183,900											
																
								\$183,900								

**Req. 2**

- a.     **\$183,900**
- b.     **\$4,500**
- c.     **\$32,400 (\$400 + \$32,000)**
- d.     **\$151,500 (\$183,900 – \$32,400, or \$148,000 + \$3,500)**
- e.     **\$3,500 (Revenue, \$9,000 minus expenses, \$5,500, equals net income, \$3,500)**

**Req. 1****Journal**

<b>DATE</b>	<b>ACCOUNT TITLES AND EXPLANATION</b>	<b>DEBIT</b>	<b>CREDIT</b>
<b>May 6</b>	<b>Cash.....</b>	<b>148,000</b>	
	<b>    Common Stock .....</b>		<b>148,000</b>
	<b>Issued stock to owner.</b>		
<b>9</b>	<b>Land .....</b>	<b>59,000</b>	
	<b>    Cash.....</b>		<b>59,000</b>
	<b>Purchased land.</b>		
<b>12</b>	<b>Medical Supplies .....</b>	<b>1,700</b>	
	<b>    Accounts Payable.....</b>		<b>1,700</b>
	<b>Purchased supplies on account.</b>		
<b>15</b>	<b>Not a transaction of the business.</b>		
<b>15-31</b>	<b>Cash .....</b>	<b>4,500</b>	
	<b>Accounts Receivable .....</b>	<b>4,500</b>	
	<b>    Service Revenue.....</b>		<b>9,000</b>
	<b>Performed service for cash and on account.</b>		
<b>15-31</b>	<b>Salary Expense .....</b>	<b>3,200</b>	
	<b>Rent Expense.....</b>	<b>1,100</b>	
	<b>Utilities Expense.....</b>	<b>1,200</b>	
	<b>    Cash.....</b>		<b>5,500</b>
	<b>Paid expenses.</b>		
<b>31</b>	<b>Cash .....</b>	<b>300</b>	
	<b>    Medical Supplies .....</b>		<b>300</b>
	<b>Sold supplies.</b>		
<b>31</b>	<b>Cash .....</b>	<b>32,000</b>	
	<b>    Note Payable .....</b>		<b>32,000</b>
	<b>Borrowed money.</b>		
<b>31</b>	<b>Accounts Payable.....</b>	<b>1,300</b>	
	<b>    Cash.....</b>		<b>1,300</b>
	<b>Paid on account.</b>		

**Req. 1****Cash**

May 6	148,000	May 9	59,000
15-31	4,500	15-31	5,500
31	300	31	1,300
31	32,000		
Bal.	119,000		

**Accounts Receivable**

May 15-31	4,500	
Bal.	4,500	

**Medical Supplies**

May 12	1,700	May 31	300
Bal.	1,400		

**Land**

May 9	59,000	
Bal.	59,000	

**Accounts Payable**

May 31	1,300	May 12	1,700
		Bal.	400

**Note Payable**

	May 31	32,000
	Bal.	32,000

**Common Stock**

	May 6	148,000
	Bal.	148,000

**Service Revenue**

	May 15-31	9,000
	Bal.	9,000

**Salary Expense**

May 15-31	3,200	
Bal.	3,200	

**Rent Expense**

May 15-31	1,100	
Bal.	1,100	

**Utilities Expense**

May 15-31	1,200	
Bal.	1,200	

**Req. 2**

**Dr. Sue Smith, P.C.  
Trial Balance  
May 31, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$119,000	
Accounts receivable .....	4,500	
Medical supplies .....	1,400	
Land .....	59,000	
Accounts payable .....		\$ 400
Note payable .....		32,000
Common stock .....		148,000
Service revenue .....		9,000
Salary expense .....	3,200	
Utilities expense .....	1,200	
Rent expense .....	<u>1,100</u>	
<b>Total .....</b>	<b><u>\$189,400</u></b>	<b><u>\$189,400</u></b>

**Req. 3**

<b>Total assets (\$119,000 + \$4,500 + \$1,400 + \$59,000) .....</b>	<b>\$183,900</b>
<b>Total liabilities (\$400 + \$32,000) .....</b>	<b><u>(32,400)</u></b>
<b>Total stockholders' equity (\$148,000 + \$3,500*) .....</b>	<b><u>\$151,500</u></b>

**\*Net income = \$3,500 (\$9,000 – \$3,200 – \$1,200 – \$1,100)**

**Req. 1**

<b>Journal</b>		
<b>ACCOUNT TITLES AND EXPLANATION</b>	<b>DEBIT</b>	<b>CREDIT</b>
1. Cash .....	8,600	
Common Stock .....		8,600
Issued common stock.		
2. Cash .....	7,500	
Note Payable .....		7,500
Borrowed money; signed note payable.		
3. Supplies .....	800	
Accounts Payable .....		800
Purchased supplies on account.		
4. Land .....	36,000	
Cash .....		7,000
Note Payable .....		29,000
Purchased land by paying cash and signing a note payable.		
5. Cash .....	70	
Supplies .....		70
Sold supplies for cash.		
6. Accounts Payable .....	230	
Cash .....		230
Paid cash on account.		
7. Equipment .....	3,500	
Cash .....		3,500
Paid cash for equipment.		

**Cash balance = \$5,440 (\$8,600 + \$7,500 – \$7,000 + \$70 – \$230 – \$3,500)**

**Company owes \$37,070 (\$7,500 + \$800 + \$29,000 – \$230)**



**Req. 1**

**Deluxe Deck Service, Inc.**  
**Trial Balance**  
**April 30, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$18,500	
Accounts receivable .....	5,800	
Equipment .....	30,000	
Accounts payable .....		\$ 4,900
Note payable .....		22,500
Common stock .....		16,800
Retained earnings .....		3,450
Dividends .....	3,900	
Service revenue .....		21,200
Salary expense .....	8,500	
Utilities expense .....	1,400	
Delivery expense .....	<u>750</u>	
Total .....	<u>\$68,850</u>	<u>\$68,850</u>

**Req. 2**

**Deluxe Deck Service, Inc.**  
**Income Statement**  
**For the Month Ended April 30, 2016**

Service revenue .....		\$21,200
Salary expense .....	\$8,500	
Utilities expense .....	1,400	
Delivery expense .....	<u>750</u>	
Total expenses .....		<u>10,650</u>
Net income .....		<u>\$10,550</u>

**Req. 1**

**Carver, Inc.**  
**Trial Balance**  
**September 30, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$ 14,300*	
Accounts receivable .....	12,400*	
Inventory .....	17,200	
Supplies .....	800	
Land .....	52,000	
Accounts payable .....		\$ 14,550*
Common stock .....		47,900*
Sales revenue .....		41,000
Insurance expense .....	3,300*	
Salary expense .....	2,100	
Utilities expense .....	850*	
Rent expense .....	500	
<b>Total .....</b>	<b><u>\$103,450</u></b>	<b><u>\$103,450</u></b>

**\*Computations:**

Cash:  $\$14,100 + \$200 = \$14,300$

Accounts Receivable:  $\$12,600 - \$200 = \$12,400$

Accounts Payable:  $\$12,100 + \$2,000 - \$200 + \$650 = \$14,550$

Common Stock:  $\$47,600 + \$300 = \$47,900$

Insurance Expense:  $\$0 + \$3,300 = \$3,300$

Utilities Expense:  $\$200 + \$650 = \$850$

Cash			
(a)	23,000	(b)	1,000
		(d)	2,500
		(e)	150
		(g)	2,000
Bal.	17,350		

Accounts Receivable			
(f)	10,900		
Bal.	10,900		

Office Supplies			
(c)	700		
Bal.	700		

Office Furniture			
(a)	9,400		
Bal.	9,400		

Accounts Payable			
(e)	150	(c)	700
		Bal.	550

Common Stock			
		(a)	32,400
		Bal.	32,400

Dividends			
(g)	2,000		
Bal.	2,000		

Service Revenue			
		(f)	10,900
		Bal.	10,900

Salary Expense			
(d)	2,500		
Bal.	2,500		

Rent Expense			
(b)	1,000		
Bal.	1,000		

**Req. 1**

**Eric Newton, Attorney  
Trial Balance  
December 31, 2016**

<b>ACCOUNT</b>	<b>DEBIT</b>	<b>CREDIT</b>
Cash .....	\$ 17,350	
Accounts receivable .....	10,900	
Office supplies .....	700	
Office furniture .....	9,400	
Accounts payable .....		\$ 550
Common stock .....		32,400
Dividends .....	2,000	
Service revenue .....		10,900
Salary expense .....	2,500	
Rent expense .....	<u>1,000</u>	
Total .....	<u>\$43,850</u>	<u>\$43,850</u>

**Req. 2**

The business performed well during December. The result of operations was net income of \$7,400, as shown by the income statement accounts:

Service revenue .....	\$10,900
Salary expense .....	\$2,500
Rent expense .....	<u>1,000</u>
Total expenses .....	<u>(3,500)</u>
Net income .....	<u>\$ 7,400</u>

**Req. 1***(amounts in millions)*

$$\begin{aligned} \text{Cash (X) + Other assets (20)} &= \text{Accounts payable (7) + Other} \\ &\quad \text{liabilities (3) + S/E (6) + Revenues (38)} \\ &\quad - \text{Expenses (25)} \end{aligned}$$

$$\text{Cash (X)} = \underline{\underline{9}}$$

**Req. 2***(amounts in millions)*

**Wolf Products Company**  
**Trial Balance**  
**May 31, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$ 9	
Other assets .....	20	
Accounts payable .....		\$ 7
Other liabilities .....		3
Stockholders' equity .....		6
Revenues .....		38
Expenses .....	<u>25</u>	<u>      </u>
Total .....	<u><u>\$54</u></u>	<u><u>\$54</u></u>

**Net income is \$13 (\$38 – \$25)**

## Serial Exercise

(20-30 min.) E 2-39

### Req. 1

#### Journal

DATE	ACCOUNT TITLES AND EXPLANATION	DEBIT	CREDIT
Aug. 2	Cash .....	10,000	
	Common Stock.....		10,000
2	Rent Expense .....	600	
	Cash .....		600
3	Equipment.....	2,700	
	Cash .....		2,700
4	Furniture .....	4,500	
	Accounts Payable .....		4,500
5	Supplies .....	800	
	Accounts Payable .....		800
9	Cash .....	1,400	
	Service Revenue .....		1,400
12	Utilities Expense .....	300	
	Cash .....		300
18	Accounts Receivable .....	1,900	
	Service Revenue .....		1,900

**Req. 2**

Cash			
Aug. 2	10,000	Aug. 2	600
9	1,400	3	2,700
		12	300
Bal.	7,800		

Accounts Receivable		
Aug. 18	1,900	
Bal.	1,900	

Supplies	
Aug. 5	800
Bal.	800

Equipment	
Aug. 3	2,700
Bal.	2,700

Furniture	
Aug. 4	4,500
Bal.	4,500

Accounts Payable		
	Aug. 4	4,500
	5	800
	Bal.	5,300

Common Stock		
	Aug. 2	10,000
	Bal.	10,000

Service Revenue		
	Aug. 9	1,400
	18	1,900
	Bal.	3,300

Rent Expense	
Aug. 2	600
Bal.	600

Utilities Expense	
Aug. 12	300
Bal.	300

**Req. 3**

**Barbara Miracle, Certified Public Accountant, P.C.**  
**Trial Balance**  
**August 18, 2016**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$ 7,800	
Accounts receivable .....	1,900	
Supplies .....	800	
Equipment .....	2,700	
Furniture .....	4,500	
Accounts payable .....		\$ 5,300
Common stock .....		10,000
Dividends .....	—	
Service revenue .....		3,300
Rent expense .....	600	
Utilities expense .....	300	
Salary expense .....	—	
<b>Total .....</b>	<b><u>\$18,600</u></b>	<b><u>\$18,600</u></b>



## Quiz

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Q2-40	a	
Q2-41	d	
Q2-42	d	
Q2-43	b	
Q2-44	c	
Q2-45	b	
Q2-46	a	
Q2-47	d	
Q2-48	a	
Q2-49	c	
Q2-50	d	
Q2-51	a	
Q2-52	a	
Q2-53	d	
Q2-54	a	
Q2-55	d	
Q2-56	d	
Q2-57	d	
Q2-58	c	
Q2-59	b	$(\$51,000 + \$30,000 + \$22,000) = \$103,000$

## Problems

**(15-30 min.) P 2-60A**

### **Req. 1**

**Dear Vicki,**

**This trial balance lists the accounts of the company, along with their balances at December 31, 2016. The trial balance provides the data for computing total assets, total liabilities, and net income or net loss.**

### Amusement Specialties reports:

- a. **Total assets** = \$393,500 (\$14,000 + \$40,000 + \$4,500 + \$96,000 + \$239,000)
- b. **Total liabilities** = \$147,300 (\$51,300 + \$96,000)
- c. **Net income** = \$139,000 (\$270,000 – \$47,000 – \$2,000 – \$79,000 – \$3,000)

**Student responses may vary but should include these amounts.**

**Req. 1****Analysis of Transactions**

<b>ASSETS</b>				<b>= LIABILITIES + STOCKHOLDERS' EQUITY</b>				<b>Type of Stockholders' Equity Transaction</b>
	<b>Cash</b>	<b>+ Accounts Receivable</b>	<b>+ Supplies</b>	<b>+ Equipment</b>	<b>= Accounts Payable</b>	<b>+ Common Stock</b>	<b>+ Retained Earnings</b>	
<b>Bal.</b>	<b>2,200</b>	<b>3,600</b>		<b>12,000</b>	<b>7,700</b>	<b>6,200</b>	<b>3,900</b>	
<b>a)</b>	<b>3,800</b>					<b>3,800</b>		<b>Issued stock</b>
<b>b)</b>	<b>6,000</b>						<b>6,000</b>	<b>Service revenue</b>
<b>c)</b>	<b>(4,300)</b>				<b>(4,300)</b>			
<b>d)</b>			<b>500</b>		<b>500</b>			
<b>e)</b>	<b>2,000</b>	<b>(2,000)</b>						
<b>f)</b>		<b>4,000</b>					<b>4,000</b>	<b>Service revenue</b>
<b>g)</b>	<b>(1,300)</b>						<b>(1,300)</b>	<b>Rent expense</b>
	<b>(700)</b>						<b>(700)</b>	<b>Advertising expense</b>
<b>h)</b>	<b>(2,800)</b>						<b>(2,800)</b>	<b>Dividends</b>
<b>Bal.</b>	<b><u>4,900</u></b>	<b><u>5,600</u></b>	<b><u>500</u></b>	<b><u>12,000</u></b>	<b><u>3,900</u></b>	<b><u>10,000</u></b>	<b><u>9,100</u></b>	
<b>\$23,000</b>				<b>\$23,000</b>				

**Req. 2**

**Rodriguez Computing, Inc.  
Income Statement  
Month Ended October 31, 2016**

<b>Revenues:</b>	
Service revenue (\$6,000 + \$4,000) .....	<b>\$10,000</b>
<b>Expenses:</b>	
Rent expense .....	<b>\$1,300</b>
Advertising expense .....	<b><u>700</u></b>
Total expenses .....	<b><u>2,000</u></b>
Net income .....	<b><u>\$8,000</u></b>

**Req. 3**

**Rodriguez Computing, Inc.  
Statement of Retained Earnings  
Month Ended October 31, 2016**

Retained earnings, October 1, 2016 .....	<b>\$ 3,900</b>
Add: Net income .....	<b><u>8,000</u></b>
Subtotal .....	<b>11,900</b>
Less: Dividends declared .....	<b><u>(2,800)</u></b>
Retained earnings, October 31, 2016 .....	<b><u>\$ 9,100</u></b>

**Req. 4**

**Rodriguez Computing, Inc.  
Balance Sheet  
October 31, 2016**

<b>ASSETS</b>		<b>LIABILITIES</b>	
Cash .....	<b>\$ 4,900</b>	Accounts payable .....	<b>\$ 3,900</b>
Accounts receivable .....	<b>5,600</b>	<b>STOCKHOLDERS'</b>	
Supplies .....	<b>500</b>	<b>EQUITY</b>	
Equipment .....	<b>12,000</b>	Common stock .....	<b>10,000</b>
		Retained earnings .....	<b><u>9,100</u></b>
		Total stockholders' equity .....	<b>19,100</b>
		Total liabilities and	
Total assets .....	<b><u>\$23,000</u></b>	stockholders' equity .....	<b><u>\$23,000</u></b>

**Req. 1**

Journal			
	ACCOUNT TITLES	DEBIT	CREDIT
a.	Cash .....	3,800	
	Common Stock .....		3,800
b.	Cash .....	6,000	
	Service Revenue .....		6,000
c.	Accounts Payable .....	4,300	
	Cash .....		4,300
d.	Supplies .....	500	
	Accounts Payable .....		500
e.	Cash .....	2,000	
	Accounts Receivable .....		2,000
f.	Accounts Receivable .....	4,000	
	Service Revenue .....		4,000
g.	Rent Expense .....	1,300	
	Advertising Expense .....	700	
	Cash .....		2,000
h.	Dividends .....	2,800	
	Cash .....		2,800

**Reqs. 2 and 3**

<b>Cash</b>		<b>Accounts Receivable</b>		<b>Supplies</b>		<b>Equipment</b>	
2,200	4,300	3,600	2,000	500		12,000	
3,800	2,000	4,000					
6,000	2,800	5,600		500		12,000	
2,000							
4,900							

<b>Accounts Payable</b>		<b>Common Stock</b>		<b>Retained Earnings</b>		<b>Dividends</b>	
4,300	7,700		6,200		3,900	2,800	
	500		3,800				
	3,900		10,000		3,900	2,800	

<b>Service Revenue</b>		<b>Rent Expense</b>		<b>Advertising Expense</b>	
	6,000	1,300		700	
	4,000				
	10,000	1,300		700	

The balances of all the accounts Cash through Common Stock agree with the ending balances obtained in Problem 2-61A.

**Req. 1**

Journal			
DATE	ACCOUNT TITLES	DEBIT	CREDIT
May 2	Cash .....	65,000	
	Common Stock .....		65,000
3	Supplies .....	600	
	Equipment .....	11,700	
	Accounts Payable.....		12,300
4	Cash .....	5,600	
	Service Revenue.....		5,600
7	Land .....	37,000	
	Cash.....		37,000
11	Accounts Receivable .....	2,900	
	Service Revenue.....		2,900
16	Accounts Payable .....	11,700	
	Cash.....		11,700
17	Advertising Expense .....	610	
	Cash.....		610
18	Cash .....	800	
	Accounts Receivable .....		800
22	Utilities Expenses .....	440	
	Cash.....		440
29	Cash .....	2,500	
	Service Revenue.....		2,500
31	Salary Expense .....	2,400	
	Cash.....		2,400
31	Dividends.....	2,000	
	Cash.....		2,000

## Req. 2

**Cash**

May 2	65,000	May 7	37,000
4	5,600	16	11,700
18	800	17	610
29	2,500	22	440
		31	2,400
		31	2,000
Bal.	19,750		

**Accounts Receivable**

May 11	2,900	May 18	800
Bal.	2,100		

**Supplies**

May 3	600		
Bal.	600		

**Equipment**

May 3	11,700		
Bal.	11,700		

**Land**

May 7	37,000		
Bal.	37,000		

**Accounts Payable**

May 16	11,700	May 3	12,300
		Bal.	600

**Common Stock**

	May 2	65,000
	Bal.	65,000

**Dividends**

May 31	2,000		
Bal.	2,000		

**Service Revenue**

	May 4	5,600
	11	2,900
	29	2,500
	Bal.	11,000

**Salary Expense**

May 31	2,400		
Bal.	2,400		

**Advertising Expense**

May 17	610		
Bal.	610		

**Utilities Expense**

May 22	440		
Bal.	440		



**Req. 3**

**Martinson Services, Inc.**  
**Trial Balance**  
**May 31, 20XX**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$19,750	
Accounts receivable .....	2,100	
Supplies .....	600	
Land .....	37,000	
Equipment .....	11,700	
Accounts payable .....		\$ 600
Common stock .....		65,000
Dividends .....	2,000	
Service revenue .....		11,000
Salary expense .....	2,400	
Advertising expense .....	610	
Utilities expense .....	<u>440</u>	
Total .....	<u>\$76,600</u>	<u>\$76,600</u>

**Req. 4**

**Total resources (assets) = \$71,150 (\$19,750 + \$2,100 + \$600 + \$37,000 + \$11,700)**

**Amount owed (total liabilities) = \$600**

**Profit (net income) = \$7,550 (\$11,000 – \$2,400 – \$610 – \$440)**

**Req. 1****Cash**

(a)	44,000	(c)	49,000
(b)	63,000	(e)	6,000
(f)	3,710	(h)	100
(j)	1,200	(k)	1,800
Bal.	55,010		

**Supplies**

(d)	230		
Bal.	230		

**Building**

(a)	106,000		
Bal.	106,000		

**Note Payable**

	(b)	63,000	
	Bal.	63,000	

**Service Revenue**

	(f)	3,710	
	(g)	13,300	
	Bal.	17,010	

**Rent Expense**

(k)	1,100		
Bal.	1,100		

**Utilities Expense**

(i)	800		
Bal.	800		

**Accounts Receivable**

(g)	13,300	(j)	1,200
Bal.	12,100		

**Music Equipment**

(c)	49,000		
Bal.	49,000		

**Accounts Payable**

(h)	100	(d)	230
		(i)	800
		Bal.	930

**Common Stock**

	(a)	150,000	
	Bal.	150,000	

**Salary Expense**

(e)	6,000		
Bal.	6,000		

**Advertising Expense**

(k)	700		
Bal.	700		

**Req. 2**

**Stein Music Services Corporation**  
**Trial Balance**  
**April 30, 2016**

<b>ACCOUNT</b>	<b>DEBIT</b>	<b>CREDIT</b>
Cash .....	\$ 55,010	
Accounts receivable .....	12,100	
Supplies .....	230	
Building .....	106,000	
Music equipment .....	49,000	
Accounts payable .....		\$ 930
Note payable .....		63,000
Common stock .....		150,000
Service revenue .....		17,010
Salary expense .....	6,000	
Rent expense .....	1,100	
Utilities expense .....	800	
Advertising expense .....	<u>700</u>	
<b>Total .....</b>	<b><u>\$230,940</u></b>	<b><u>\$230,940</u></b>

**Req. 1**

**Dear Amy,**

**This trial balance lists the accounts of the company, along with their balances at December 31, 2016. The trial balance provides the data for computing total assets, total liabilities, and net income or net loss.**

**Larrabee Design reports:**

- a. Total assets = \$392,500 (\$13,000 + \$47,000 + \$5,500 + \$103,000 + \$224,000)**
- b. Total liabilities = \$148,400 (\$50,400 + \$98,000)**
- c. Net income = \$91,000 (\$220,000 – \$33,000 – \$15,000 – \$79,000 – \$2,000)**

**Student responses may vary but should include these calculations.**

**Req. 1****Analysis of Transactions**

	<b>ASSETS</b>				=	<b>LIABILITIES</b>		+	<b>STOCKHOLDERS' EQUITY</b>			
	Cash	Accounts + Receivable	+ Supplies	+ Equipment	=	Accounts Payable	+ Common Stock	+	Retained Earnings	Type of Stockholders' Equity Transaction		
Bal.	2,100	3,400		12,400	=	7,500	5,600		4,800			
a)	3,900						3,900			Issued stock		
b)	6,000								6,000	Service revenue		
c)	(4,800)					(4,800)						
d)			900			900						
e)	1,100	(1,100)										
f)		4,500							4,500	Service revenue		
g)	(1,700)								(1,700)	Rent expense		
	(1,300)								(1,300)	Advertising expense		
h)	(2,300)								(2,300)	Dividends		
Bal.	<u>3,000</u>	<u>6,800</u>	<u>900</u>	<u>12,400</u>	=	<u>3,600</u>	<u>9,500</u>		<u>10,000</u>			
	\$23,100					\$23,100						

**Req. 2**

**Willis Computing, Inc.**  
**Income Statement**  
**Month Ended November 30, 2016**

---

<b>Revenues:</b>	
Service revenue (\$6,000 + \$4,500) .....	<b>\$10,500</b>
<b>Expenses:</b>	
Rent expense.....	<b>\$1,700</b>
Advertising expense .....	<u><b>1,300</b></u>
Total expenses .....	<u><b>3,000</b></u>
Net income.....	<u><b>\$ 7,500</b></u>

**Req. 3**

**Willis Computing, Inc.**  
**Statement of Retained Earnings**  
**For the Month Ended November 30, 2016**

---

Retained earnings, October 31, 2016 .....	<b>\$ 4,800</b>
Add: Net income.....	<u><b>7,500</b></u>
Subtotal	<b>12,300</b>
Less: Dividends declared.....	<u><b>(2,300)</b></u>
Retained earnings, November 30, 2016 .....	<u><b>\$10,000</b></u>

**Req. 4**

**Willis Computing, Inc.**  
**Balance Sheet**  
**November 30, 2016**

<b>ASSETS</b>		<b>LIABILITIES</b>	
Cash .....	\$ 3,000	Accounts payable .....	\$ 3,600
Accounts receivable .....	6,800	<b>STOCKHOLDERS'</b>	
Supplies .....	900	<b>EQUITY</b>	
Equipment .....	12,400	Common stock .....	9,500
		Retained earnings .....	<u>10,000</u>
		Total stockholders' equity ....	19,500
		Total liabilities and	
Total assets .....	<u>\$23,100</u>	stockholders' equity .....	<u>\$23,100</u>

**Req. 1**

<b>Journal</b>		
<b>ACCOUNT TITLES AND EXPLANATION</b>	<b>DEBIT</b>	<b>CREDIT</b>
a. Cash .....	3,900	
Common Stock.....		3,900
b. Cash .....	6,000	
Service Revenue .....		6,000
c. Accounts Payable .....	4,800	
Cash .....		4,800
d. Supplies .....	900	
Accounts Payable .....		900
e. Cash .....	1,100	
Accounts Receivable... ..		1,100
f. Accounts Receivable .....	4,500	
Service Revenue .....		4,500
g. Rent Expense .....	1,700	
Advertising Expense.....	1,300	
Cash .....		3,000
h. Dividends .....	2,300	
Cash .....		2,300



**Reqs. 2 and 3**

<b>Cash</b>		<b>Accounts Receivable</b>		<b>Supplies</b>		<b>Equipment</b>	
2,100	4,800	3,400	1,100	900		12,400	
3,900	3,000	4,500					
6,000	2,300	6,800		900		12,400	
1,100							
3,000							

<b>Accounts Payable</b>		<b>Common Stock</b>		<b>Retained Earnings</b>		<b>Dividends</b>	
4,800	7,500		5,600		4,800	2,300	
	900		3,900				
	3,600		9,500		4,800	2,300	

<b>Service Revenue</b>		<b>Rent Expense</b>		<b>Advertising Expense</b>	
	6,000	1,700		1,300	
	4,500				
	10,500	1,700		1,300	

The balances of all the accounts Cash through Common Stock agree with the ending balances obtained in Problem 2-66B.

**Req. 1****Journal**

<b>DATE</b>		<b>ACCOUNT TITLES</b>	<b>DEBIT</b>	<b>CREDIT</b>
July	2	Cash .....	62,000	
		Common Stock .....		62,000
	3	Supplies .....	800	
		Equipment .....	12,100	
		Accounts Payable .....		12,900
	4	Cash .....	5,600	
		Service Revenue .....		5,600
	7	Land .....	39,000	
		Cash .....		39,000
	11	Accounts Receivable .....	2,900	
		Service Revenue .....		2,900
	16	Accounts Payable .....	12,100	
		Cash .....		12,100
	17	Utilities Expense .....	590	
		Cash .....		590
	18	Cash .....	800	
		Accounts Receivable .....		800
	22	Utilities Expense .....	420	
		Cash .....		420
	29	Cash .....	2,300	
		Service Revenue .....		2,300
	30	Salary Expense .....	2,500	
		Cash .....		2,500
	30	Dividends .....	2,000	
		Cash .....		2,000

**Req. 2**

Cash			
July 2	62,000	July 7	39,000
4	5,600	16	12,100
18	800	17	590
29	2,300	22	420
		30	2,500
		30	2,000
Bal.	14,090		

Equipment			
July 3	12,100		
Bal.	12,100		

Accounts Payable			
July 16	12,100	July 3	12,900
		Bal.	800

Dividends			
July 30	2,000		
Bal.	2,000		

Salary Expense			
July 30	2,500		
Bal.	2,500		

Accounts Receivable			
July 11	2,900	July 18	800
Bal.	2,100		

Supplies			
July 3	800		
Bal.	800		

Land			
July 7	39,000		
Bal.	39,000		

Common Stock			
		July 2	62,000
		Bal.	62,000

Service Revenue			
		July 4	5,600
		11	2,900
		29	2,300
		Bal.	10,800

Utilities Expense			
July 17	590		
22	420		
Bal.	1,010		

**Req. 3**

**Gagne Services, Inc.**  
**Trial Balance**  
**July 31, 20XX**

ACCOUNT	DEBIT	CREDIT
Cash .....	\$14,090	
Accounts receivable .....	2,100	
Supplies .....	800	
Land .....	39,000	
Equipment .....	12,100	
Accounts payable .....		\$ 800
Common stock .....		62,000
Dividends .....	2,000	
Service revenue .....		10,800
Salary expense .....	2,500	
Utilities expense .....	1,010	
<b>Total .....</b>	<b><u>\$73,600</u></b>	<b><u>\$73,600</u></b>

**Req. 4**

**Total resources (assets)**                      = \$68,090 (\$14,090 + \$2,100 + \$800 + \$39,000 + \$12,100)

**Amount owed (total liabilities)**        = \$800

**Profit (net income)**                              = \$7,290 (\$10,800 – \$2,500 – \$1,010)

**Req. 1**

Cash			
(a)	50,000	(c)	44,000
(b)	63,000	(e)	5,900
(f)	3,700	(h)	200
(j)	1,700	(k)	1,500
Bal.	66,800		

Music Equipment			
(c)	44,000		
Bal.	44,000		

Note Payable			
		(b)	63,000
		Bal.	63,000

Common Stock			
		(a)	156,000
		Bal.	156,000

Service Revenue			
		(f)	3,700
		(g)	13,100
		Bal.	16,800

Advertising Expense			
(k)	300		
Bal.	300		

Accounts Receivable			
(g)	13,100	(j)	1,700
Bal.	11,400		

Supplies			
(d)	210		
Bal.	210		

Building			
(a)	106,000		
Bal.	106,000		

Accounts Payable			
(h)	200	(d)	210
		(i)	600
		Bal.	610

Salary Expense			
(e)	5,900		
Bal.	5,900		

Rent Expense			
(k)	1,200		
Bal.	1,200		

Utilities Expense			
(i)	600		
Bal.	600		

**Req. 2**

**Spahr Music Corporation**  
**Trial Balance**  
**May 31, 2016**

<b>ACCOUNT</b>	<b>DEBIT</b>	<b>CREDIT</b>
Cash .....	\$ 66,800	
Accounts receivable .....	11,400	
Supplies .....	210	
Building .....	106,000	
Music equipment .....	44,000	
Accounts payable .....		\$ 610
Note payable .....		63,000
Common stock .....		156,000
Service revenue .....		16,800
Salary expense .....	5,900	
Rent expense .....	1,200	
Utilities expense .....	600	
Advertising expense .....	300	
<b>Total .....</b>	<b><u>\$236,410</u></b>	<b><u>\$236,410</u></b>

## Challenge Exercises and Problem

(20-40 min.) E 2-70

### Req. 1

a. Total cash paid during December:

Cash			
Nov. 30 Bal.	16,500		
Dec. receipts	91,000	Dec. payments	X = \$99,250
Dec. 31 Bal.	8,250		

$$\$16,500 + \$91,000 - X = \$8,250$$

$$X = \$99,250$$

b. Cash collections from customers during December:

Accounts Receivable			
Nov 30 Bal.	23,000		
Dec. sales			
on account	42,000	Dec. collections	X = \$44,000
Dec. 31 Bal.	21,000		

$$\$23,000 + \$42,000 - X = \$21,000$$

$$X = \$44,000$$

c. Cash paid on notes payable during December:

Notes Payable			
		Nov. 30 Bal.	11,500
X = \$23,000	Dec. note payments	X	Dec. new borrowing 31,000
			Dec. 31 Bal. 19,500

$$\$11,500 + \$31,000 - X = \$19,500$$

$$X = \$23,000$$

**Req. 1**

**4AC, Inc.  
Trial Balance  
October 31, 2016**

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Cash.....	\$ 3,900	
Accounts receivable.....	7,100	
Land.....	30,100	
Accounts payable.....		\$ 6,200
Note payable.....		5,900
Common stock.....		24,100
Retained earnings.....		1,700
Service revenue.....		9,400
Salary expense.....	2,900	
Advertising expense.....	<u>1,400</u>	
Totals.....	<u>\$45,400</u>	<u>\$47,300</u>

Out of balance by \$1,900

The correct balance of Accounts Receivable is \$9,000\* (\$7,100 + \$1,900). After this correction, total debits will be \$47,300 (\$45,400 + \$1,900), the same as total credits.

**Req. 2**

- a. Total assets = \$43,000 (\$3,900 + \$9,000\* + \$30,100)
- b. Total liabilities = \$12,100 (\$6,200 + \$5,900)
- c. Net income = \$ 5,100 (\$9,400 – \$2,900 – \$1,400)



**Req. 1****Henderson Co.:**

Income statement		November	December
Employee medical exp. .		\$38,000	\$ -0-
Balance sheet		Nov. 30	Dec. 31
Cash .....		\$57,000	\$30,000*
Accounts payable .....		38,000	11,000**

**Goodland Hospital:**

Income statement		November	December
Service revenue .....		\$38,000	\$ -0-
Balance sheet		Nov. 30	Dec. 31
Cash .....		\$ -0-	\$27,000
Accounts receivable .....		38,000	11,000**

**Req. 2****Explanation:**

Henderson's \$38,000 expense is Goodland's revenue.

Henderson's \$27,000 cash payment is Goodland's cash receipt.

Henderson's \$11,000 account payable is Goodland's account receivable.

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$$*\$57,000 - \$27,000 = \$30,000$$

$$**\$38,000 - \$27,000 = \$11,000$$

**Req. 1**

<b>Date</b>	<b>Effect on Cash</b>	<b>Effect on Total Assets</b>	<b>Effect on Net Income</b>
<b>May 1</b>	<b>Understated \$100</b>	<b>Overstated \$100</b>	<b>Overstated \$100</b>
<b>2</b>	<b>Understated \$18,000</b>	<b>Understated \$18,000</b>	<b>Understated \$18,000</b>
<b>5</b>	<b>Correct</b>	<b>Understated \$2,800</b>	<b>Understated \$2,800</b>
<b>10</b>	<b>Correct</b>	<b>Correct</b>	<b>Correct</b>
<b>16</b>	<b>Correct</b>	<b>Correct</b>	<b>Overstated \$5,600</b>
<b>25</b>	<b>Correct</b>	<b>Overstated \$5,400</b>	<b>Correct</b>

**Req. 2**

**Correct cash balance, \$24,500 (\$6,400 + \$100 + \$18,000)**

**Req. 3**

**Correct total assets, \$43,300 (\$28,000 + \$18,000 - \$5,400 + \$2,800 - \$100)**

**Req. 4**

**Correct net income, \$23,100 (\$8,000 - \$100 + \$2,800 - \$5,600 + \$18,000)**

## Decision Cases

(40-50 min.) Decision Case 1

*Reqs. 1 and 2*

Cash			
(a)	7,000	(c)	1,300
(b)	6,000	(d)	1,800
(h)	2,500	(f)	2,000
(i)	1,200	(f)	1,200
		(j)	1,000
Bal.	9,400		

Accounts Receivable			
(g)	8,000	(i)	1,200
Bal.	6,800		

Supplies			
(c)	1,300		

Furniture			
(e)	5,400		

Accounts Payable			
(j)	1,000	(e)	5,400
		Bal.	4,400

Notes Payable			
		(b)	6,000

Common Stock			
		(a)	7,000

Service Revenue			
		(g)	8,000
		(h)	2,500
		Bal.	10,500

Salary Expense			
(f)	2,000		

Advertising Expense			
(d)	1,800		

Rent Expense			
(f)	1,200		

**Req. 3**

**Barlow Networks, Inc.**  
**Trial Balance**  
**Current Date**

ACCOUNT	DEBIT	CREDIT
Cash.....	\$ 9,400	
Accounts receivable .....	6,800	
Supplies .....	1,300	
Furniture.....	5,400	
Accounts payable.....		\$ 4,400
Notes payable .....		6,000
Common stock .....		7,000
Service revenue.....		10,500
Salary expense .....	2,000	
Advertising expense .....	1,800	
Rent expense .....	<u>1,200</u>	
Total.....	<u>\$27,900</u>	<u>\$27,900</u>

**Req. 4 (net income or loss for first month of operations)****Revenues:**

Service revenue ..... \$10,500

**Expenses:**

Salary expense..... \$2,000

Advertising expense..... 1,800

Rent expense..... 1,200

Total expenses..... 5,000

Net income for month ..... \$5,500

**Recommendation:** Barlow's criteria for remaining in operation was to earn net income of \$5,000. His actual result was just over this goal. Yes, I would recommend that he stay in business.

(20-30 min.) Decision Case 2

Little Italy, Inc.  
Income Statement  
Month Ended December 31, 2016

Sales revenue.....	\$42,000
Expenses:	
Cost of sales (expense).....	22,000
Rent expense.....	6,000
Advertising expense.....	<u>5,000</u>
Total expenses.....	<u>33,000</u>
Net income.....	<u>\$ 9,000</u>

Little Italy, Inc.  
Balance Sheet  
December 31, 2016

ASSETS		LIABILITIES	
Cash.....	\$ 12,000	Accounts payable .....	\$ 8,000
Food inventory.....	5,000	STOCKHOLDERS' EQUITY	
Furniture.....	<u>10,000</u>	Common stock .....	10,000
		Retained earnings .....	<u>9,000*</u>
		Total stockholders' equity	<u>19,000</u>
		Total liabilities	
Total assets .....	<u>\$27,000</u>	and stockholders' equity .	<u>\$27,000</u>

\*Must solve for this amount. It is also the amount of net income, which is the only change in retained earnings for the month.

**Recommendation:** Do not expand this month. The business falls short of the goals for both net income and total assets. However, Little Italy, Inc. appears to be profitable, and assets are building toward Gardner's goals. Maybe next month.

## Ethical Issue 1

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1. The ethical issue is whether these alternatives of financing the business are proper from an economic, legal, and ethical standpoint.
2. The stakeholders are Scruffy Murphy, the bank, potential new and existing creditors, and the friend who may become a stockholder. Consequences to the creditors are the inability of the company to pay interest and the loan. Consequences to the investors are the inability of the company to pay dividends and the possibility of loss of investment if the company goes bankrupt.

3.

Option 1:	Cash .....	200,000	
	Common Stock.....		200,000
Option 2:	Land .....	200,000	
	Common Stock.....		200,000
	Common Stock .....	200,000	
	Land.....		200,000

Option 1 is economically sound, perfectly legal, and also ethical because the sale of the stock is a valid transaction between the business and a stockholder. The consequences of this decision are that Murphy obtains additional financing at a cost (he now shares ownership of the business with his friend). The friend gives up cash in exchange for an ownership interest in the business. The bank and future creditors obtain complete and truthful disclosure of the manner in which the business has been financed.

Option 2 represents “window dressing” (making the company look like an entity that it is not). Although it might be legal in the strictest sense of the word (and it might not), this option does not faithfully represent economic reality. Thus, it is not in accordance with GAAP, which is a substitute for the legal criterion. This option is also unethical because the receipt of the land by the business is not a real transaction. The transfer of the land back to

**Murphy means that the business never actually has the land for its use. It violates the rights of the bank and future creditors to give them information that is inaccurate and that does not faithfully represent economic reality.**

- 4. The best option to take is definitely Option 1. The decision maker can walk away from this transaction confident that he or she told the truth.**

## **Ethical Issue 2**

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### **Part a.**

**1. The ethical issue is whether you should question your grade, which is higher than you expected. Your choices are (a) discuss the grade with the professor; and (b) do not discuss the grade with the professor.**

**2, 3. Stakeholders are you, the professor, the other students in the class, and the university. The possible consequences to you of discussing the grade with the professor is that it may lead to the discovery that the professor made a mistake in calculating the grade, which may lead to a downward adjustment. While this could possibly have adverse economic consequences (i.e., perhaps loss of scholarship if the grade is substantially lowered), it is unlikely that a letter-grade drop in one course would have such an impact on grade point average as to cause loss of a scholarship. There is no legal consequence to reporting a grade that is too high. The ethical consequence is generally positive on all concerned, as it leads to clarification of the true grade.**

**4. Student opinions will vary on this part.**

### **Part b.**

**1. The ethical issue in this case is whether you should question your grade, which is now lower than you expected. Your choices are (a) discuss the grade with the professor; and (b) do not discuss the grade with the professor.**

**2, 3. Like part a, the stakeholders are you, the professor, the other students in the class, and the university. The possible consequences to you of discussing the grade with the professor is that it may lead to the discovery that the professor made a mistake in calculating the grade, which may lead**



to an upward adjustment. This could have positive economic consequences (i.e., perhaps keeping a scholarship). Like part a, the ethical consequence of this action is generally positive on all concerned, as it leads to clarification of the true grade.

4. Most students would probably respond “take it to the professor.” But shouldn’t we be just as concerned about knowing the true grade either way? The author recommends discussing the grade with the professor one way or the other.

Part c.

Both course grades and financial statements report results that people use in order to make decisions that can carry both positive and negative consequences. In both situations, it is important that the user receive relevant information, and that the information faithfully represent facts as they actually occurred.

## Focus on Financials: Apple Inc.

(20-30 min.)

**Reqs. 1 and 3**

*(All amounts in millions)*

Cash	
	0
b. 178,437	e. 104,776
g. 980	f. 18,034
i. 1,382	h. 13,973
	j. 4,027
39,989	
Inventories	
1,764	d. 112,258
c. 112,605	
2,111	
Property, Plant and Equipment, net	
16,597	
j. 4,027	
20,624	
Cost of Sales	
d. 112,258	
112,258	
Other Income/(Expense), net	
	g. 980
	980

Accounts Receivable, net	
13,102	b. 178,437
a. 182,795	
17,460	
Other Assets	
5,146	
	i. 1,382
3,764	
Accounts Payable	
e. 104,776	22,367
	c. 112,605
	30,196
Net Sales	
	a. 182,795
	182,795
Operating Expenses	
f. 18,034	
18,034	
Provision for Income Taxes	
h. 13,973	
13,973	

**Req. 2**

		(Millions)
a.	Accounts Receivable, net .....	182,795
	Net Sales (Revenue) .....	182,795
b.	Cash .....	178,437
	Accounts Receivable, net .....	178,437
c.	Inventories .....	112,605
	Accounts Payable .....	112,605
d.	Cost of Sales .....	112,258
	Inventories .....	112,258
e.	Accounts Payable .....	104,776
	Cash .....	104,776
f.	Operating Expenses .....	18,034
	Cash .....	18,034
g.	Cash .....	980
	Other Income/(Expense), net .....	980
h.	Provision for Income Taxes .....	13,973
	Cash .....	13,973
i.	Cash .....	1,382
	Other Assets .....	1,382
j.	Property, Plant, and Equipment, net .....	4,027
	Cash .....	4,027

**Req. 4**

All the selected account balances agree with Apple Inc.'s actual figures on the income statement or the balance sheet.

**Req. 5**

<b>Revenue:</b>	<b>(Millions)</b>	
Net sales .....	\$182,795	
Other Income/(Expense), net .....	<u>980</u>	
Total revenue .....		183,775
<b>Expenses:</b>		
Cost of sales.....	\$112,258	
Operating expenses.....	18,034	
Provision for income taxes .....	<u>13,973</u>	
Total expenses .....		<u>144,265</u>
Net Income.....		<u>\$ 39,510</u>

The net income of \$39,510 million equals the net income reported on Apple's income statement.

## Focus on Analysis: Under Armour, Inc.

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(20-30 min.)

### Req. 1

During fiscal 2014, Under Armour, Inc. had more net revenues than cash collections. This is determined by analyzing net receivables, as follows:

Net receivables:

	<i>(Thousands)</i>
Balance at the end of fiscal 2013 .....	\$ 209,952
+ Net revenues during fiscal 2014 (from consolidated statements of income) .....	3,084,370
– Collections from customers during fiscal 2014 .....	____(X)
= Balance at the end of fiscal 2014 .....	<u>\$ 279,835</u>

Solving for X, collections were \$3,014,487 ( $\$209,952 + \$3,084,370 - \$279,835$ ). Another way to express this relationship is that when accounts receivable increase during the year, revenues must exceed cash collections. If accounts receivable decrease during the year, cash collections must exceed revenues.

**Req. 2**

Net revenues increased 32.26% in 2014, which is better than in 2013 (27.09%) perhaps due to a better strategic alignment. Net income increased more in 2014 (28.16%) than in 2013 (26.05%). Net income grew slower than net revenues during the two year period due to a larger tax bill and additional sources of expenses due to expansion. For example, interest expense increased 81.90% in 2014 and selling, general and administrative expenses increased 32.89% in 2014.

	<b>2014</b>	<b>2013</b>	<b>2012</b>
<b>Net revenues (thousands)</b>	<b>\$3,084,370</b>	<b>\$2,332,051</b>	<b>\$1,834,921</b>
<b>\$ change</b>	<b>752,319</b>	<b>497,130</b>	
<b>Percentage change</b>	<b>32.26%</b>	<b>27.09%</b>	
 <b>Net income (thousands)</b>	 <b>\$208,042</b>	 <b>\$162,330</b>	 <b>\$128,778</b>
<b>\$ change</b>	<b>45,712</b>	<b>33,552</b>	
<b>Percentage change</b>	<b>28.16%</b>	<b>26.05%</b>	

## **Group Projects**

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**Student responses will vary.**

**Chapter 2 - Transaction Analysis**  
**Directed Reading Worksheet**

**Part I: Explain what a transaction is (LO1)**

1. A(n) \_\_\_\_\_ is any event that has a financial impact on the business and can be measured reliably.
2. What two things must happen for an event to be considered a transaction?

**Part II: Define "account," and list and differentiate between different types of accounts (LO2)**

3. What is the accounting equation?
4. A(n) \_\_\_\_\_ is the record of all the changes in a particular asset, liability, or stockholders' equity during a period.
5. What is the definition of an asset?
6. List seven asset accounts that a company is likely to have.



7. What is the definition of a liability?
8. List the three most common types of liabilities.
9. What is stockholders' equity?
10. What five main types of accounts are in stockholders' equity?
11. What effect does a dividend declaration have on retained earnings?
12. What effect does revenue have on stockholders' equity? What effect do expenses have on stockholders' equity?

**Part III: Show the impact of business transactions on the accounting equation**

13. For each item, indicate the impact of that transaction on assets, liabilities, and equity. Assume that all transactions, unless stated otherwise, are in cash.

	Transaction	Assets (increase + or decrease -)	=	Liabilities (increase + or decrease -)	+	Equity (increase + or decrease -)
1.	Received \$50,000 cash and issued stock to the owners					
2.	Paid \$40,000 cash for land					
3.	Bought \$3,700 of supplies on account					
4.	Received \$7,000 cash from customers for service revenue earned					
5.	Performed services for customers on account, \$3,000					
6.	Paid cash expenses: rent, \$1,100; employee salary, \$1,200; utilities, \$400					
7.	Paid \$1,900 on the account payable created in transaction 3					
8.	Major stockholder paid personal funds to remodel home, not a business transaction					
9.	Received \$1,000 on account					
10.	Sold land for cash at the land's cost of \$22,000					
11.	Declared and paid a dividend of \$2,100 to the stockholders					

14. What line item is carried from the Income Statement to the Statement of Retained Earnings?  
What line item is carried from the Statement of Retained Earnings to the Balance Sheet?

**Part IV: Analyze the impact of business transactions on accounts**

15. Describe what it means that accounting is based on a double-entry system?
16. The left side of each t-account is the \_\_\_\_\_ side, and the right side is the \_\_\_\_\_ side.
17. Describe how debits and credits affect asset, liability, and stockholders' equity accounts.
18. How do debits and credits affect dividend, expense, and revenue accounts.

**Part V: Record (journalize and post) transactions in the books**

19. What is the chronological record of transactions that accountants use called?

20. List the three steps of the journalizing process.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

21. The \_\_\_\_\_ is a grouping of all the T-accounts, with their balances.

22. What does “posting” mean?

23. Post the following transactions to the ledger accounts. Use t-accounts to represent the ledger accounts. (Transactions 1-4 from question 13)

1.	Received \$50,000 cash and issued stock to the owners
2.	Paid \$40,000 cash for land
3.	Bought \$3,700 of supplies on account
4.	Received \$7,000 cash from customers for service revenue earned

**Part VI: Construct and use a trial balance**

24. Describe a trial balance, including its purpose.
25. What formula could you use to analyze the cash account and compute cash payments for the period if you were unsure of the amount of cash payments?
26. What three strategies could help you detect and correct accounting errors made during the period?
- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
27. What do organizations use to list all of their accounts and account numbers?
28. Describe what an account's "normal balance" means.

29. Indicate the normal balance for each of the following types of accounts:

- a. Assets
- b. Liabilities
- c. Stockholders' equity – overall
  - i. Common stock
  - ii. Retained earnings
  - iii. Dividends
  - iv. Revenues
  - v. Expenses

30. What is an advantage of using the four-column account format?

31. On what statement do companies report their results of operations? On what statement do companies report their financial position?

**Chapter 2 - Transaction Analysis**  
**Directed Reading Worksheet Answer Key**

**Part I: Explain what a transaction is (LO1)**

1. Transaction
2. (1) It gives something, and (2) it receives something in return.

**Part II: Define “account,” and list and differentiate between different types of accounts (LO2)**

3.  $\text{Assets} = \text{Liabilities} + \text{Stockholders' (Owners') Equity}$
4. Account
5. Economic resources that provide a future benefit for a business
6. Cash, Accounts receivable, Inventory, Prepaid expenses, Film and television costs, Investments, and Parks, Resorts, and Other Property
7. Liabilities are debt. Amounts owed to other parties (payables).
8. Accounts payable, Notes payable, and Accrued liabilities
9. The owners' claims to the assets of a corporation
10. Common stock, Retained earnings, Dividends, Revenues, and Expenses
11. Dividends decrease retained earnings
12. Expenses decrease stockholders' equity.  
Revenues increase stockholders' equity.

13.

	Transaction	Assets (increase + or decrease -)	=	Liabilities (increase + or decrease -)	+	Equity (increase + or decrease -)
1.	Received \$50,000 cash and issued stock to the owners	50,000	=		+	50,000
2.	Paid \$40,000 cash for land	(40,000) +40,000	=		+	
3.	Bought \$3,700 of supplies on account	3,700	=	3,700	+	
4.	Received \$7,000 cash from customers for service revenue earned	7,000	=		+	7,000
5.	Performed services for customers on account, \$3,000	3,000	=		+	3,000
6.	Paid cash expenses: rent, \$1,100; employee salary, \$1,200; utilities, \$400	(2,700)	=		+	(2,700)
7.	Paid \$1,900 on the account payable created in transaction 3	(1,900)	=	(1,900)	+	
8.	Major stockholder paid personal funds to remodel home, not a business transaction	N/A	=	N/A	+	N/A
9.	Received \$1,000 on account	+1,000 (1,000)	=		+	
10.	Sold land for cash at the land's cost of \$22,000	+22,000 (22,000)	=		+	
11.	Declared and paid a dividend of \$2,100 to the stockholders	(2,100)	=		+	(2,100)



14. Net income

Ending retained earnings

**Part IV: Analyze the impact of business transactions on accounts**

15. The dual effects of each transaction are always recorded. Every transaction affects at least two accounts.

16. Debit; credit

17. Debits increase assets and decrease liabilities and stockholders' equity. Credits decrease assets and increase liabilities and stockholders' equity.

18. Debits increase dividends and expenses but decrease revenues. Credits decrease dividends and expenses but increase revenues.

**Part V: Record (journalize and post) transactions in the books**

19. Journal

20. a. Specify each account affected by the transaction and classify each account by type.  
b. Determine whether each account is increased or decreased by the transaction. Use the rules of debit and credit to increase or decrease each account.  
c. Record the transaction in the journal, including a brief explanation. The debit side is entered on the left margin, and the credit side is indented to the right.

21. Ledger

22. Posting means to copy data (amounts) from the journal to the ledger.

23.

Cash		Common Stock		Land		Service Revenue	
(1) 50,000	(2) 40,000		(1) 50,000	(2) 40,000			(4) 7,000
(4) 7,000							
Supplies		Accounts Payable					
(3) 3,700			(3) 3,700				

## Part VI: Construct and use a trial balance

24. A trial balance lists all of the accounts with their balances. It starts with assets, then liabilities and stockholders' equity. The trial balance summarizes all the account balances and shows whether total debits equal total credits. The trial balance facilitates in the preparation of the financial statements.
25.  $\text{Cash payments} = \text{Beginning balance} + \text{Cash receipts} - \text{Ending balance}$
26. a. Search the records for a missing account.  
b. Divide the out-of-balance amount by 2.  
c. Divide the out-of-balance amount by 9.
27. Chart of accounts
28. Normal balance is the side of the account where increases are recorded. In order to increase an asset, you debit it, therefore assets have a normal debit balance.
29. Normal balances:
- a. Assets – **debit**
  - b. Liabilities – **credit**
  - c. Stockholders' equity – overall – **credit**
    - i. Common stock – **credit**
    - ii. Retained earnings – **credit**
    - iii. Dividends – **debit**
    - iv. Revenues – **credit**
    - v. Expenses – **debit**
30. It keeps a running balance in the two right columns.
31. Results of operations are reported on the income statement, while the company's financial position can be found on the balance sheet.

## Chapter 2: Transaction Analysis

### Learning Objectives

1. **Explain** what a transaction is
2. **Define** “account” and **list** and **differentiate** between different types of accounts
3. **Show** the impact of business transactions on the accounting equation
4. **Analyze** the impact of business transactions on accounts
5. **Record** (journalize and post) transactions in the books
6. **Construct and use** a trial balance

### Chapter 2 Outline

- I. A Business Transaction
  - A. Any event that has a financial impact on the business and can be measured reliably
  - B. Giving something
  - C. Receiving something in return
- II. Account
  - A. Record of all the changes in a particular asset, liability, or stockholders’ equity during a period
  - B. Categories
    1. Assets (Examples: Cash, Accounts Receivable, Inventory)
    2. Liabilities (Examples: Accounts Payable, Notes Payable, Accrued Liabilities)
    3. Stockholders’ (Owners’) Equity (Examples: Common Stock, Retained Earnings, Dividends, Revenues, Expenses)
- III. Transaction Examples
  - A. Impact on the accounting equation (the equation always stays in balance)
  - B. Impact on the financial statements
- IV. Impact of Business Transactions on Accounts
  - A. Double-entry accounting system
  - B. T-account:

ACCOUNT TITLE	
Debit	Credit

1. Debit – “left or left-hand side”
  2. Credit – “right or right-hand side”
- C. Rules of debit and credit

1. Debit – Increases in assets, expenses, and dividends; decreases in liabilities, stockholders' equity, and revenues
  2. Credit – Increases in liabilities, stockholders' equity, and revenues; decreases in assets, expenses, and dividends
- D. Balance = amount remaining in an account
- E. Revenues (Examples: Sales Revenue, Legal Fees Earned, Service Revenue)
- F. Expenses (Examples: Cost of Goods Sold, Salaries Expense, Utilities Expense)
- V. Record Transactions in the Books
- A. Journal – A chronological record of transactions
- B. Journalizing example:

Account and Explanation	Debit	Credit
Cash	50,000	
Common Stock		50,000
<i>Issued common stock</i>		

- C. Ledger – Grouping of all the T-accounts, with their balances
- D. Posting – Data must be copied from the journal to the ledger
- E. Posting example:

Account and Explanation	Debit	Credit
Cash	50,000	
Common Stock		50,000
<i>Issued common stock</i>		

Cash	
50,000	

Common Stock	
	50,000

- F. Flow of accounting data

- VI. Construct and Use a Trial Balance
- A. Analyzing accounts
  - B. Correcting accounting errors
  - C. Chart of accounts
  - D. Normal account balances:

Account Type	Normal Balance	Increase	Decrease
Asset	Debit	Debit	Credit
Liability	Credit	Credit	Debit
Stockholders' Equity	Credit	Credit	Debit
Revenue	Credit	Credit	Debit
Expense	Debit	Debit	Credit
Common Stock	Credit	Credit	Debit
Retained Earnings	Credit	Credit	Debit
Dividends	Debit	Debit	Credit

- E. Account formats
- F. How to analyze transactions from T-accounts

## Chapter Activities

### 1. Chapter Opener

Chapter 2 spotlight continues with the Walt Disney Company discussion from Chapter 1 and discusses the sources of some of the millions of transactions that Disney records each year, resulting in billions of dollars of revenues. Throughout the chapter, references are made to the accounts and transactions that Disney reports in their financial statements. Again, have the students review the Walt Disney website at <https://thewaltdisneycompany.com>, and study the financial statements, focusing on the consolidated statements of income (found in the annual report), and discuss what items might make up the company's revenues. Additionally, discuss the items that could be included in the expense figures for Disney. This could lead to a discussion about how a company determines its net income or net loss.

## 2. Transactions Activity

Use the game Monopoly as an example of a business that would engage in transactions for a particular period. Examples of transactions that a player of the game might encounter include:

- 1) Receive \$1,500 in cash to be used as capital investment
- 2) Bank pays you a dividend of \$50
- 3) Purchase Park Place for \$35
- 4) Pay poor tax of \$15
- 5) Purchase house for property on Park Place for \$200
- 6) Pay rent on Baltic Avenue of \$4
- 7) Receive for services \$25
- 8) From sale of common stock, you get \$45
- 9) Pay school tax of \$150
- 10) Collect rent on Park Place of \$175
- 11) Pay rent on Pennsylvania Railroad of \$25
- 12) Pay Water Works \$60
- 13) Mortgage Park Place for \$175

Place the students into groups and use the chart of accounts below. Have the students put each of the transactions in journal entry form.

Cash  
Dividend Revenue  
Common Stock  
House  
Investment Revenue  
Land  
Mortgage Payable  
Rent Expense  
Rent Revenue  
Tax Expense  
Service Revenue  
Utilities Expense

### Difficult Topics

- Rules of debit and credit

**Answer Key to Chapter 2 Quiz (Quiz on following pages)**

1. A
2. C
3. C
4. B
5. D
6. B
7. A
8. B
9. D
10. C

Name \_\_\_\_\_ Date \_\_\_\_\_  
Section \_\_\_\_\_

**CHAPTER 2**  
**10-MINUTE QUIZ**

**Circle the letter of the best response.**

1. Which of the following accounts is decreased with a credit?  
A. Accounts Receivable  
B. Accounts Payable  
C. Rent Revenue  
D. Service Revenue
2. The ledger is:  
A. Always expected to have a debit balance.  
B. An event that has an economic impact on the business.  
C. A grouping of all T-accounts, with their balances.  
D. None of the above
3. The journal is:  
A. A listing of all open accounts and their balances.  
B. A listing of all accounts used to record the business transactions.  
C. A chronological record of transactions.  
D. Not necessary to record transactions.
4. Which of the following accounts is decreased with a debit?  
A. Equipment  
B. Accounts Payable  
C. Cash  
D. Payroll Expense
5. The Spartain Company received \$3,600 from a customer on account. The entry to record this transaction is:  
A. Accounts Receivable      3,600  
    Cash                              3,600  
B. Cash                              3,600  
    Accounts Payable              3,600  
C. Revenue                        3,600  
    Cash                              3,600  
D. Cash                              3,600  
    Accounts Receivable          3,600



6. In analyzing a transaction using the accounting equation, which account is included in the Stockholders' Equity section?
  - A. Accounts Payable
  - B. Revenue
  - C. Accounts Receivable
  - D. Cash
7. Cash at the beginning of March was \$5,670. During the month, cash receipts totaled \$78,990. Ending cash at March 31 was \$2,340. Cash disbursements during March must have been:
  - A. \$82,320
  - B. \$84,660
  - C. \$75,660
  - D. Cannot be determined from the information given.
8. A trial balance:
  - A. Requires that every transaction affect at least two accounts.
  - B. Lists all accounts with their balances.
  - C. Mandates that the dollar sum of the debits equal that of the credits for each transaction.
  - D. None of the above
9. When a company sells merchandise, but the customer does not pay it immediately, it should:
  - A. Credit Accounts Payable.
  - B. Make no entry.
  - C. Credit Accounts Receivable.
  - D. Debit Accounts Receivable.
10. An expense:
  - A. Has the same normal balance as liabilities.
  - B. Is the decrease in liabilities as a result of providing goods or services.
  - C. Is the decrease in stockholders' equity as a result of providing goods or services.
  - D. Is the increase in stockholders' equity as a result of providing goods or service

## **Chapter 2: Questions You Should Be Able To Answer**

<b>Learning Objective</b>	<b>Question(s)</b>	<b>Answer</b>	<b>For practice</b>
1. Explain what a transaction is	What is a business transaction?	A <b>transaction</b> is any event that has a financial impact on the business and can be measured reliably.	S2-1 S2-9
2. Define “account,” and list and differentiate between different types of accounts	• What is an account?	• An account, the basic summary device of accounting, is the record of all the changes in a particular asset, liability, or stockholders’ equity during a period.	S2-3
	• Describe the following accounts: 1. Assets 2. Liabilities 3. Stockholders’ equity 4. Revenues 5. Expenses 6. Dividends	1. Economic resources that provide a future benefit for a business. 2. Debts of the business, due in cash or goods/services, 3. The owners’ claims to the assets of the corporation, including common stock and retained earnings. 4. Increases in stockholders’ equity that result from delivering goods or services to customers. 5. Decreases in stockholders’ equity that result from costs of operating a business. 6. Distributions to shareholders, usually in cash, from profitable operations; dividends decrease retained earnings.	S2-2 S2-4

Learning Objective	Question(s)	Answer	For practice
3. Show the impact of business transactions on the accounting equation			S2-5 S2-6
4. Analyze the impact of business transactions on accounts	What is the double-entry system of accounting?	Every transaction affects at least two accounts.	S2-7 S2-8 S2-9
	What is a T-account?	The letter, T; the name of the account is written on the top. Debit entries are on the left side with credit entries on the right side of the T-account.	
	<ul style="list-style-type: none"> <li>What are the rules of debit and credit?</li> </ul>	<ul style="list-style-type: none"> <li>Assets increase with a debit and decrease with a credit.</li> <li>Liabilities and stockholders' equity increase with a credit and decrease with a debit. (Note that the rules are the opposite on opposite sides of the accounting equation.)</li> <li>Revenues increase with a credit and expenses increase with a debit.</li> <li>Dividends increase with a debit. (Note that revenues increase retained earnings and expenses and dividends decrease retained earnings.)</li> </ul>	

<b>Learning Objective</b>	<b>Question(s)</b>	<b>Answer</b>	<b>For practice</b>
5. Record (journalize and post) transactions in the books	What is a journal?	A chronological record of business transactions; the first place a transaction is recorded.	S2-10 S2-11, S2-12, S2-13
	What is the ledger?	A grouping of the T-accounts, along with their balances.	
	What occurs during posting?	Transactions are posted or copied from the journal to the ledger (always in that order). A balance is calculated for each account in the ledger.	
6. Construct and use a trial balance	What is a trial balance?	A list of all accounts with their balances—assets first, then liabilities and stockholders' equity (including revenue and expense accounts). Account balances are listed in either the debit column or the credit column, and the columns are totaled. They should be equal.	S2-14 S2-15 S2-16
	What does a trial balance prove?	That equal debits and credits have been recorded.	
	How can the trial balance be used?	To facilitate preparation of financial statements (although they will be more accurate after adjusting entries are added in the next chapter).	
	How can accounting errors be detected?	<ol style="list-style-type: none"> <li>1. Search for missing amounts.</li> <li>2. If the two columns of the trial balance are not equal, search for an entry of that amount.</li> <li>3. Divided the difference between the two columns by 9 to determine if there is a slide or transposition error.</li> </ol>	
Ethics Check			EC-1

<b>Learning Objective</b>	<b>Question(s)</b>	<b>Answer</b>	<b>For practice</b>
6. Construct and use a trial balance (continued)	<ul style="list-style-type: none"> <li>• How can the trial balance be used?</li> </ul>	<ul style="list-style-type: none"> <li>• To facilitate preparation of financial statements (although they will be more accurate after adjusting entries are added in the next chapter)</li> </ul>	
	<ul style="list-style-type: none"> <li>• How can accounting errors be detected?</li> </ul>	<ul style="list-style-type: none"> <li>• Search for missing amounts</li> <li>• If the two columns of the trial balance are not equal, search for an entry of that amount</li> <li>• Divide the difference between the two columns by 9 to determine if there is a slide or transposition error</li> </ul>	
Ethics Check			EC2-1

## Chapter 2: Assignment Grid

Assignment	Topic(s)	L.O.	Estimated Time (minutes)	Level of Difficulty	(Will have an X if available)		
					Excel Templates	QuickBook Templates	General Ledger Templates
S2-1	Explain what a transaction is	1	5	Easy			
S2-2	Differentiate between different types of accounts	2	5	Easy			
S2-3	Define accounting terms	2	10	Easy			
S2-4	Differentiate between different types of accounts	2	5	Easy			
S2-5	Show the impact of transactions on the accounting equation	3	5	Easy			
S2-6	Show the impact of transactions on the accounting equation	3	5	Medium			
S2-7	Analyze the impact of business transactions on accounts	4	5	Easy			
S2-8	Analyze the impact of business transactions on accounts	4	5-10	Easy			
S2-9	Analyze the impact of business transactions on accounts	4	5-10	Easy			
S2-10	Record (journalize) transactions	5	10	Medium		X	
S2-11	Record (journalize and post) transactions in the books	5	10-15	Easy			
S2-12	Record (journalize and post) transactions in the books	5	10-15	Easy			
S2-13	Record (journalize) transactions	5	15-20	Medium			
S2-14	Construct and use a trial balance	6	10	Medium			
S2-15	Use a trial balance	6	10	Easy			
S2-16	Use a trial balance	6	10	Medium			

Assignment	Topic(s)	L.O.	Estimated Time (minutes)	Level of Difficulty	(Will have an X if available)		
					Excel Templates	QuickBook Templates	General Ledger Templates
E2-17A	Explain what a transaction is; analyze the impact of transactions on accounts	1,4	10-15	Easy			
E2-18A	Analyze the impact of business transactions on accounts	4	10-15	Easy			
E2-19A	Show the impact of business transactions on the accounting equation	3	15-20	Medium			
E2-20A	Record (journalize) transactions in the books	5	10-15	Medium		X	X
E2-21A	Analyze the impact of business transactions on accounts; record (post) transactions in the books; construct and use a trial balance	4,5,6	20-30	Medium			
E2-22A	Explain what a transaction is; analyze the impact of business transactions on the accounts; record (journalize) transactions	1,4,5	10-15	Medium			
E2-23A	Construct and use a trial balance	6	10-20	Medium	X		
E2-24A	Construct and use a trial balance	6	15-25	Medium	X		
E2-25A	Analyze the impact of business transactions on accounts	4	10-15	Medium			
E2-26A	Construct and use a trial balance	6	15-20	Medium			
E2-27A	Construct and use a trial balance	6	15-20	Medium			
E2-28B	Explain what a transaction is; analyze the impact of transactions on accounts	1,4	10-15	Easy			
E2-29B	Analyze the impact of transactions on accounts	4	10-15	Easy			
E2-30B	Show the impact of business transactions on the accounting equation	3	15-20	Medium			
E2-31B	Record (journalize) transactions in the books	5	10-15	Medium			

Assignment	Topic(s)	L.O.	Estimated Time (minutes)	Level of Difficulty	(Will have an X if available)		
					Excel Templates	QuickBook Templates	General Ledger Templates
E2-32B	Analyze the impact of business transactions on accounts; record (post) transactions in the books; construct and use a trial balance	4,5,6	20-30	Medium			
E2-33B	Explain what a transaction is; analyze the impact of business transactions on accounts; record (journalize) transactions in the books	1,4,5	10-15	Medium			
E2-34B	Construct and use a trial balance	6	10-20	Medium			
E2-35B	Construct and use a trial balance	6	15-25	Medium			
E2-36B	Analyze the impact of business transactions on accounts	4	10-15	Medium			
E2-37B	Construct and use a trial balance	6	15-20	Medium			
E2-38B	Construct and use a trial balance	6	15-20	Medium			
E2-39	Explain what a transaction is; analyze the impact of business transactions on accounts; record (journalize and post) transactions in the books; construct and use a trial balance	1,4,5,6	20-30	Medium			
Q2-40 to Q2-59	Quiz questions	All	30-50	Medium			
P2-60A	Construct and use a trial balance	6	15-30	Medium			
P2-61A	Show the impact of business transactions on the accounting equation; analyze the impact of business transactions on accounts	3,4	45-60	Medium			
P2-62A	Analyze the impact of business transactions on accounts; record (journalize and post) transactions in the books	4,5	30-40	Medium		X	



Assignment	Topic(s)	L.O.	Estimated Time (minutes)	Level of Difficulty	(Will have an X if available)		
					Excel Templates	QuickBook Templates	General Ledger Templates
P2-63A	Analyze the impact of business transactions on accounts; record (journalize and post) transactions in the books; construct and use a trial balance	4,5,6	50-60	Medium		X	X
P2-64A	Analyze the impact of business transactions on accounts; construct and use a trial balance	4,6	40-50	Medium			
P2-65B	Construct and use a trial balance	6	15-30	Medium			
P2-66B	Show the impact of business transactions on the accounting equation; analyze the impact of business transactions on accounts	3,4	45-60	Medium			
P2-67B	Analyze the impact of business transactions on accounts; record (journalize and post) transactions in the books	4,5	30-40	Medium			
P2-68B	Analyze the impact of business transactions on accounts; record (journalize and post) transactions in the books; construct and use a trial balance	4,5,6	50-60	Medium	X		
P2-69B	Analyze the impact of business transactions on accounts; construct and use a trial balance	4,6	40-50	Medium			
E2-70	Analyze the impact of business transactions on accounts	4	20-40	Difficult			
E2-71	Analyze the impact of business transactions on accounts; construct and use a trial balance	4,6	20-30	Medium			
E2-72	Analyze the impact of business transactions on account	4	10-15	Medium			

					(Will have an X if available)		
Assignment	Topic(s)	L.O.	Estimated Time (minutes)	Level of Difficulty	Excel Templates	QuickBook Templates	General Ledger Templates
P2-73	Show the impact of business transactions; analyze the impact of errors and compute correct amounts; record (journalize and post) transaction in the books	3,4,5	20-30	Difficult			
Decision Case 1	Analyze the impact of transactions on business accounts; construct and use a trial balance; measure net income or loss; decide whether to continue a business	4,6	40-50	Medium			
Decision Case 2	Analyze the impact of transactions on business accounts; correct erroneous financial statements; decide whether to expand a business	4	20-30	Medium			
Ethical Issue 1	Scruffy's Bar	All	20-30	Medium			
Ethical Issue 2	Academic Honesty	All	20	Medium			
Focus on Financials—Apple Inc.	Record transactions; compute net income	3,4	20-30	Medium			
Focus on Analysis—Under Armour, Inc.	Analyze financial statements	4	20-30	Medium			
Group Project 1	Rock Concert	All	45-60	Difficult			
Group Project 2	Local Business	All	45-60	Difficult			

## Chapter 2: Locating an annual report/Form 10-K

### Initial posting

In this discussion, you will use information you find in a company's Form 10-K, which is the annual report that publicly-held companies file with the Securities & Exchange Commission (SEC.)

The first thing you need to do is find a recent 10-K (issued within the past twelve months) for a publicly-held company in which you are interested.

To find a Form 10-K, you will use the SEC Edgar database. Search online for "SEC Edgar." If you know what company you are interested in, you might also be able to go to that company's Investor Relations website and locate its Form 10-K there. You can also view a short video about how to locate a Form 10-K on the SEC EDGAR site at <http://youtu.be/MPgvGua9-RM>.

In your first posting for this discussion, describe the company you selected for the Form 10-K. Give the company's full official name. Give the URL for the direct download of the company's 10-K that you are referencing. You will want to talk about what this company does and the products it sells. What is the company's year end (date)? Also tell why you selected this company. Why does this company interest you? Is this somewhere you might be interested in working at some day? Are you passionate about the company's products?

Your posting should be 100 – 300 words. Do not copy phrases from the Form 10-K; write your post in your own words. You can include information from the financial statements or Note 1 as well. Include one item in your paragraph that you found particularly interesting or surprising. You also need to post (in that same initial posting) a question about something in the 10-K (the parts described above only) that puzzles you; some question you have from reading the parts described.

### Follow-up posting

For your follow-up posting(s) for the week (the one(s) due by Saturday), you will reply to someone's question(s). Use your textbook as your reference. Have reasons (facts) behind your answer (please note: Wikipedia is not an appropriate source, nor are many websites you find.) Do try to answer the question and provide rationale for your answer (again, your textbook is the best source in most cases).

ELEVENTH EDITION

# Financial Accounting



HARRISON | HORNGREN | THOMAS | TIETZ

# Financial Accounting

## Chapter Two: Transaction Analysis



# Learning Objectives

1. **Explain** what a transaction is
2. **Define** “account,” and **list** and **differentiate** between different types of accounts
3. **Show** the impact of business transactions on the accounting equation
4. **Analyze** the impact of business transactions on accounts
5. **Record** (journalize and post) transactions in the books
6. **Construct and use** a trial balance



# **Learning Objective One**

**Explain** what a transaction is



# **Explain What a Transaction Is**

A **transaction** is any event that has a financial impact on the business and can be measured reliably.

- Provides objective information about the financial impact on an exchange
  - Gives something
  - Receives something
- Accounting records both sides of the transaction



## **Learning Objective Two**

**Define “account,” and list and differentiate between different types of accounts**





## **Define Account**

The accounting equation expresses the basic relationship of accounting.

$$\text{Assets} = \text{Liabilities} + \text{Stockholders' (Owners') Equity}$$



## **Define Account**

An **account** is the record of all the changes in a particular asset, liability, or stockholders' equity during a period.

➤ Basic summary device



## List and Differentiate Between Different Types of Accounts

**Assets:** economic resources that provide a future benefit

### Cash

Money including bank account balances, paper currency, coins, certificates of deposits, and checks

### Accounts Receivable

Promise for future cash for goods or services

### Inventory

Goods the company sells to customers



## List and Differentiate Between Different Types of Accounts

**Assets:** economic resources that provide a future benefit

### Prepaid Expenses

Expenses paid in advance, such as insurance or rent

### Investments

Interests purchased and held in other companies

### Property, Plant, and Equipment

Cost of the land, buildings, and equipment owned by a company



## List and Differentiate Between Different Types of Accounts

**Assets:** economic resources that provide a future benefit

### Prepaid Expenses

Expenses paid in advance, such as insurance or rent

### Investments

Interests purchased and held in other companies

### Property, Plant, and Equipment

Cost of the land, buildings, and equipment owned by a company



## List and Differentiate Between Different Types of Accounts

**Liabilities:** a debt or payable

<b>Accounts Payable</b>	Promise to pay a debt
<b>Notes Payable</b>	Signed notes promising to pay a future amount
<b>Accrued Liabilities</b>	Liability for an expense you have not yet paid



## List and Differentiate Between Different Types of Accounts

**Stockholders' Equity:** the stockholders' claims to the assets of the company

<b>Common Stock</b>	Owners' investment in the corporation through stock
<b>Retained Earnings</b>	Cumulative net income minus net losses and dividends over the company's life
<b>Dividends</b>	Distribution of the company's earnings to its shareholders



## List and Differentiate Between Different Types of Accounts

**Stockholders' Equity:** the stockholders' claims to the assets of the company

**Revenues**

Increase in stockholders' equity from delivering goods or services to customers

**Expenses**

Decrease in stockholders' equity due to the cost of operating the business





# **Learning Objective Three**

**Show** the impact of business transactions on the accounting equation



## **Show the impact of business transactions on the accounting equation**

**Example:** Alladin Travel, Inc.

To illustrate the accounting for transactions, we will consider 11 transactions and analyze each in terms of its effect on Alladin Travel.



# Transaction 1

On, April 1, Starr Williams and a few friends invest \$50,000 to open Alladin Travel, Inc., and the business issues common stock to the stockholders.

<u>Assets</u>		<u>Liabilities</u>	+	<u>Stockholders' Equity</u>	<u>Type of Stockholders' Equity Transaction</u>
Cash				Common Stock	
(1) + 50,000	=			+ 50,000	Issued common stock



## Transaction 2

Alladin purchases land for a new location and pays cash of \$40,000.

Assets			Liabilities + Stockholders' Equity		Type of Stockholders' Equity Transaction
Cash	+	Land		Common Stock	
(1) 50,000				50,000	Issued common stock
(2) <u>-40,000</u>		<u>+40,000</u>		<u>50,000</u>	
Bal 10,000		40,000		50,000	
50,000					



## Transaction 3

The business buys supplies on account, agreeing to pay \$3,700 within 30 days.

Assets					Liabilities + Stockholders' Equity		
	Cash	+	Supplies	+	Land	Accounts Payable	+ Common Stock
Bal	10,000				40,000		50,000
(3)			+ 3,700			+ 3,700	
Bal	10,000		3,700		40,000	3,700	50,000
					53,700		
						53,700	



# Transaction 4

Alladin earns \$7,000 of service revenue by providing services for customers.

Assets					}	=	Liabilities + Stockholders' Equity			Type of Stockholders' Equity Transaction	
Cash	+	Supplies	+	Land			Accounts Payable	+	Common Stock	+	Retained Earnings
Bal	10,000		3,700		40,000	3,700		50,000			
(4)	+ 7,000									+ 7,000	Service revenue
Bal	<u>17,000</u>		<u>3,700</u>		<u>40,000</u>	<u>3,700</u>		<u>50,000</u>		<u>7,000</u>	
	60,700						60,700				



# Transaction 5

Alladin performs services on account, which means that Alladin lets some customers pay later.

Assets					Liabilities + Stockholders' Equity			Type of
	Cash	Accounts Receivable	Supplies	Land	Accounts Payable	Common Stock	Retained Earnings	Equity Transaction
Bal	17,000		3,700	40,000	3,700	50,000	7,000	
(5)		+ 3,000					+ 3,000	Service revenue
Bal	17,000	3,000	3,700	40,000	3,700	50,000	10,000	
	63,700				63,700			



## Transaction 6

During the month, Alladin Travel, Inc., pays \$2,700 for the following expenses: rent \$1,100; employee salaries, \$1,200; and utilities, \$400.

Assets					Liabilities + Stockholders' Equity			Type of Stockholders' Equity Transaction
	Cash	Accounts Receivable	Supplies	Land	Accounts Payable	Common Stock	Retained Earnings	
Bal	17,000	3,000	3,700	40,000	3,700	50,000	10,000	
(6)	- 2,700						- 1,100	Rent expense
							- 1,200	Salary expense
							- 400	Utilities expense
Bal	<u>14,300</u>	<u>3,000</u>	<u>3,700</u>	<u>40,000</u>	<u>3,700</u>	<u>50,000</u>	<u>7,300</u>	
	61,000				61,000			





# Transaction 7

Alladin pays \$1,900 on account, which means to make a payment toward an account payable.

Assets							}	=	{	Liabilities		+	Stockholders' Equity			
Cash	+	Accounts Receivable	+	Supplies	+	Land				Accounts Payable	+	Common Stock	+	Retained Earnings		
Bal		14,300		3,000		3,700					40,000	3,700		50,000		7,300
(7)		<u>- 1,900</u>										<u>- 1,900</u>				
Bal		<u>12,400</u>		<u>3,000</u>		<u>3,700</u>		<u>40,000</u>		<u>1,800</u>		<u>50,000</u>		<u>7,300</u>		
		59,100								59,100						



## Transaction 8

Starr Williams, the major stockholder of Alladin Travel, paid \$30,000 out of her personal bank account to remodel her home.

**No Entry**



# Transaction 9

In transaction 5, Alladin performed services for customers on account. The business now collects \$1,000 from a customer.

Assets						Liabilities + Stockholders' Equity			
	Cash	+	Accounts Receivable	+	Supplies	+	Land	Accounts Payable	+ Common Stock + Retained Earnings
Bal	12,400		3,000		3,700		40,000	1,800	50,000 + 7,300
(9)	+ 1,000		- 1,000						
Bal	<u>13,400</u>		<u>2,000</u>		<u>3,700</u>		<u>40,000</u>	<u>1,800</u>	<u>50,000 + 7,300</u>
	59,100							59,100	



# Transaction 10

Alladin sells some land for \$22,000, which is the same amount Alladin paid for the land.

Assets						Liabilities + Stockholders' Equity			
	Cash	+	Accounts Receivable	+	Supplies	+	Land	Accounts Payable	+ Common Stock + Retained Earnings
Bal	13,400		2,000		3,700		40,000	1,800	50,000 + 7,300
(10)	+ 22,000						- 22,000		
Bal	35,400		2,000		3,700		18,000	1,800	50,000 + 7,300
	59,100							59,100	



# Transaction 11

Alladin Travel, Inc., declares a dividend and pays the stockholders \$2,100 cash.

Assets					Liabilities + Stockholders' Equity			Type of
	Cash	Accounts Receivable	Supplies	Land	Accounts Payable	Common Stock	Retained Earnings	Equity Transaction
Bal	35,400	2,000	3,700	18,000	1,800	50,000	7,300	
(11)	- 2,100						- 2,100	Dividend
Bal	<u>33,300</u>	<u>2,000</u>	<u>3,700</u>	<u>18,000</u>	<u>1,800</u>	<u>50,000</u>	<u>5,200</u>	
	57,000				57,000			

# 3

## Exhibit 2-1 | Transaction Analysis: Alladin Travel, Inc.

A1										
	A	B	C	D	E	F	G	H	I	J
1		Assets				=	Liabilities+Stockholders' Equity		Type of SE Transaction	
2	Trans	Cash	AR	Supplies	Land		AP	C Stock	RE	
3	1	50,000						50,000		Issued common stock
4	2	(40,000)			40,000					
5	3			3,700			3,700			
6	4	7,000							7,000	Service revenue
7	5		3,000						3,000	Service revenue
8	6	(2,700)							(1,100)	Rent expense
9									(1,200)	Salary expense
10									(400)	Utilities expense
11	7	(1,900)					(1,900)			
12	9	1,000	(1,000)							
13	10	22,000			(22,000)					
14	11	(2,100)							(2,100)	Dividend
15	Bal	33,300	2,000	3,700	18,000		1,800	50,000	5,200	
16	Totals		57,000					57,000		
17										

Statement of Cash Flows Data

Income Statement Data

Statement of Retained Earnings Data

Balance Sheet Data

Statement of Cash Flows Data

Income Statement Data  
Statement of Retained Earnings Data

Balance Sheet Data



## Exhibit 2-2 | Financial Statements of Alladin Travel, Inc. 1 of 2

A1			
	A	B	C
1	<b>Alladin Travel, Inc. Income Statement Month Ended April 30, 2016</b>		
2	<b>Revenues</b>		
3	Service revenue (\$7,000 + \$3,000)		\$ 10,000
4	<b>Expenses</b>		
5	Salary expense	\$ 1,200	
6	Rent expense	1,100	
7	Utilities expense	400	
8	Total expenses		2,700
9	Net income		\$ 7,300

	B	C
1	<b>Alladin Travel, Inc. Statement of Retained Earnings Month Ended April 30, 2016</b>	
2	Retained earnings, April 1, 2016	\$ 0
3	Add: Net income for the month	7,300
4	Subtotal	7,300
5	Less: Dividends declared	(2,100)
6	Retained earnings, April 30, 2016	\$ 5,200
7		





## Exhibit 2-2 | Financial Statements of Alladin Travel, Inc. 2 of 2

A1				
	A	B	C	
1	<b>Alladin Travel, Inc.</b>			
2	<b>Statement of Retained Earnings</b>			
3	<b>Month Ended April 30, 2016</b>			
4	Retained earnings, April 1, 2016		\$ 0	
5	Add: Net income for the month		7,300	
6	Subtotal		7,300	
7	Less: Dividends declared		(2,100)	
8	Retained earnings, April 30, 2016		<b>\$ 5,200</b>	
9				
10				

	D	E
1	<b>Alladin Travel, Inc.</b>	
2	<b>Balance Sheet</b>	
3	<b>April 30, 2016</b>	
4	<b>Assets</b>	<b>Liabilities</b>
5	Cash	Accounts payable
6	Accounts receivable	<b>Stockholders' Equity</b>
7	Supplies	Common stock
8	Land	Retained earnings
9		Total stockholders' equity
10		Total liabilities and
11	Total assets	stockholders' equity
12		





# **Learning Objective Four**

**Analyze** the impact of business transactions on accounts



# **Analyze the impact of business transactions on accounts**

## **Accounting:**

- Double-entry system
- Records dual effects of each transaction
  - At least two accounts in each transaction



# Analyze the impact of business transactions on accounts

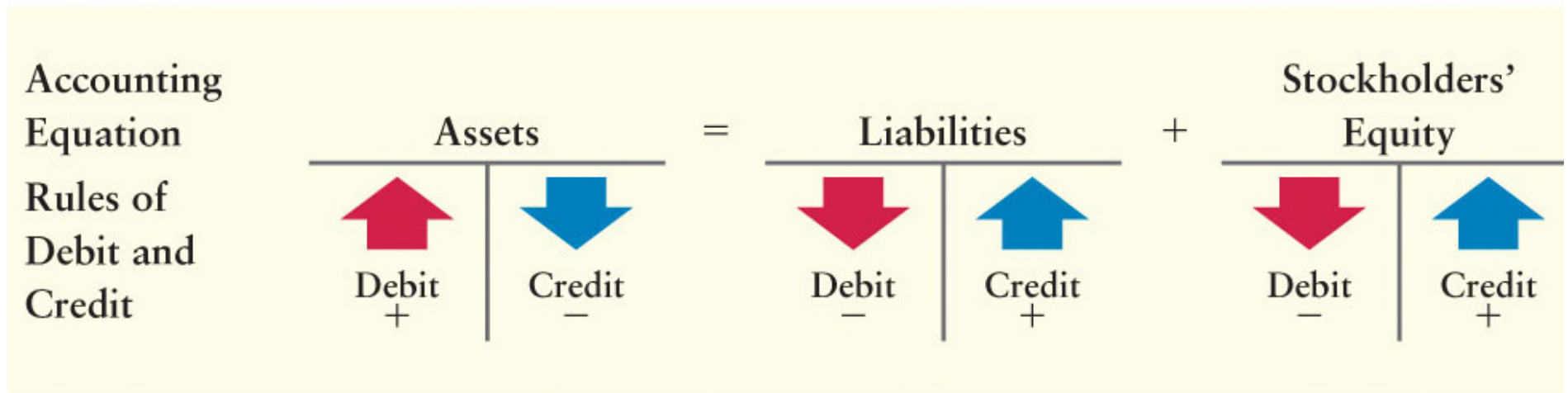
## The T-Account

- Record of increases and decreases in a specific asset, liability, equity, revenue, or expense
- Left side = “Debit”
- Right side = “Credit”

Cash	
(Left side)	(Right side)
<i>Debit</i>	<i>Credit</i>
Debit = Left side	Credit = Right side



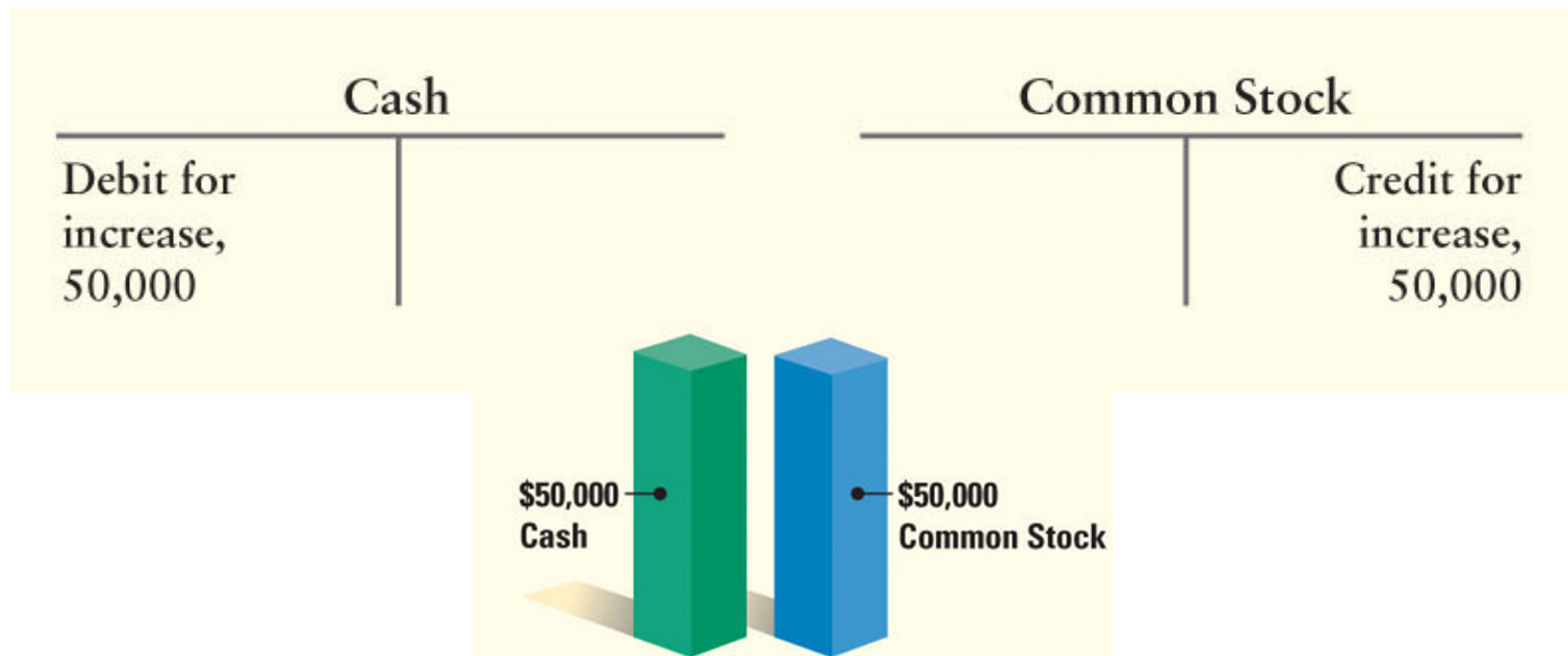
## Exhibit 2-3 | Accounting Equation and the Rules of Debit and Credit



The type of account determines how to record increases and decreases.

# 4

## Exhibit 2-4 | The Accounting Equation after Alladin Travel, Inc.'s, First Transaction



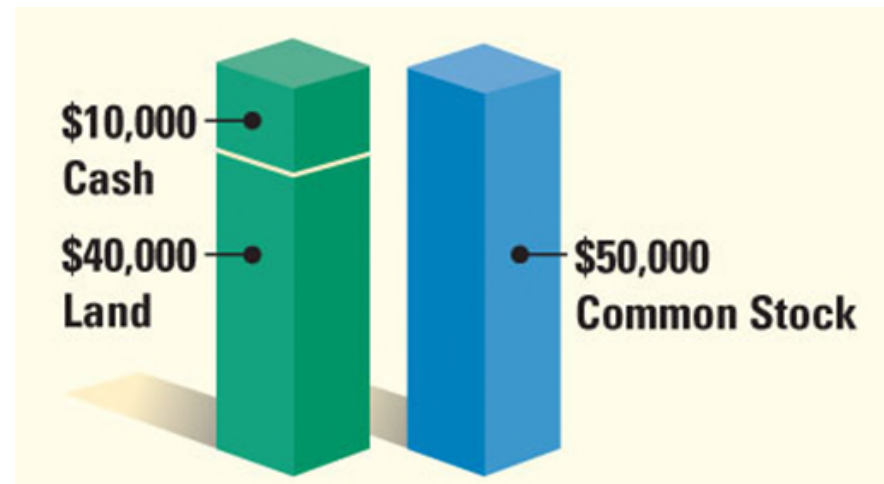
To illustrate, Alladin Travel, Inc., received \$50,000 and issued (gave) stock. What is the effect on the accounts?

# 4

## Exhibit 2-5 | The Accounting Equation after Alladin Travel, Inc.'s, First Two Transactions

Cash		
Bal	50,000	Credit for decrease, 40,000
Bal	10,000	
Land		
		Debit for increase, 40,000
Bal	40,000	

Common Stock	
Bal	50,000



Alladin's second transaction is a \$40,000 cash purchase of land. What is the effect on the accounts?



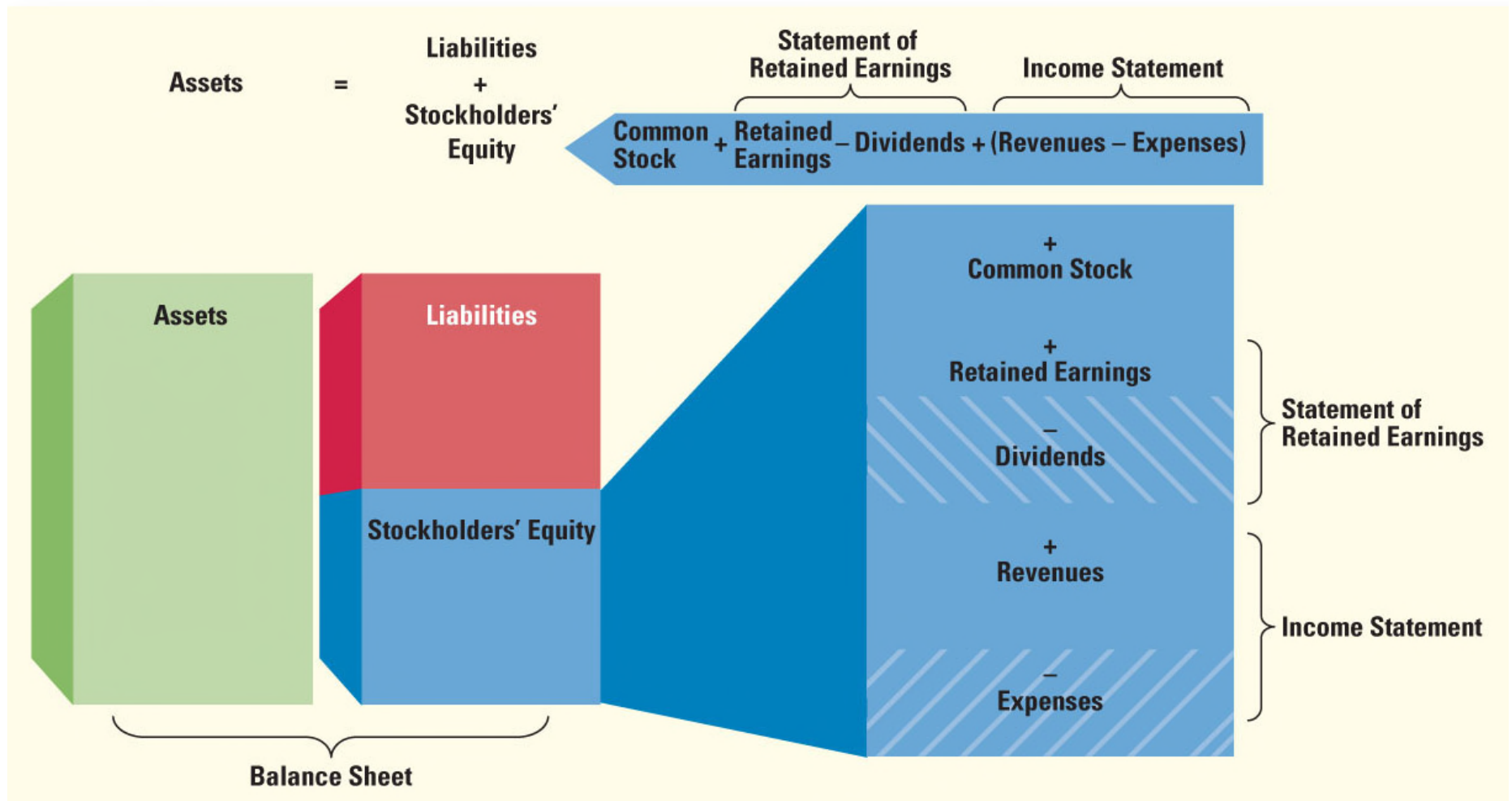
## **Additional Stockholders' Equity Accounts: Revenues and Expenses**

Two categories of income statement accounts:

- Revenues → increase stockholders' equity
  - result from delivering goods/services
- Expenses → decrease stockholders equity
  - cost of operating the business

# 4

## Exhibit 2-6 | Expansion of the Accounting Equation







# Exhibit 2-7 | Final Form of the Rules of Debit and Credit

ASSETS		=	LIABILITIES		+	STOCKHOLDERS' EQUITY					
Assets			Liabilities			Common Stock		Retained Earnings		Dividends	
Debit	Credit		Debit	Credit		Debit	Credit	Debit	Credit	Debit	Credit
+	-		-	+		-	+	-	+	+	-
						Revenues		Expenses			
						Debit	Credit	Debit	Credit	Debit	Credit
						-	+	+	-	+	-



# **Learning Objective Five**

**Record** (journalize and post)  
transactions in the books



# **Record (journalize and post) transactions in the books**

## **Journal**

- Chronological record of transactions
- Three steps:
  1. Specify each account affected by the transaction and classify by type
  2. Determine if each account is increased or decreased (debit or credit)
  3. Record in the journal



# Record (journalize and post) transactions in the books

Steps to journalize the first transaction of Alladin Travel, Inc.

**Step 1** Business receives \$50,000 cash and issues stock

**Step 2** Both Cash and Common Stock increase

**Step 3** Journalize the transaction:

A1						
	A	B	C	D	E	F
	JOURNAL					
1	Date	Accounts and Explanation	Debit	Credit		
2	Apr 1	Cash	50,000			
3		Common Stock		50,000		
4		<i>Issued common stock.</i>				
5						

## Exhibit 2-8 | The Ledger (Asset, Liability, and Stockholders' Equity Accounts)

Cash		

Individual  
*asset* accounts

Accounts Payable		

Individual  
*liability* accounts

Common Stock		

Individual  
*stockholders'*  
*equity* accounts



All individual accounts combined  
make up the ledger.



## Exhibit 2-9 | Journal Entry and Posting to the Accounts

PANEL A—Journal Entry

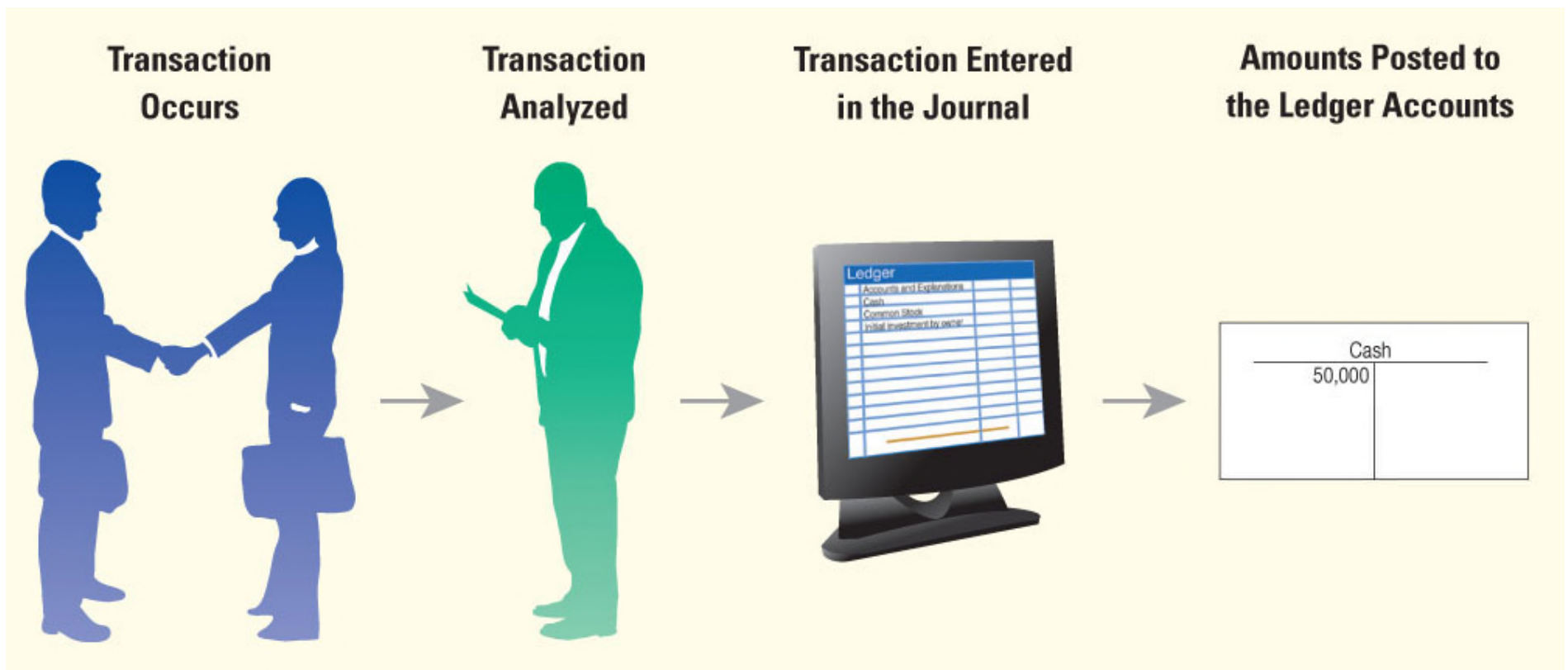
A1			
	A	B	C
1	Accounts and Explanation	Debit	Credit
2	Cash	50,000	
3	Common Stock		50,000
4	<i>Issued common stock.</i>		
5			

PANEL B—Posting to the Accounts

Cash	Common Stock
50,000	50,000



# Exhibit 2-10 | Flow of Accounting Data





# Transaction 1

(1) Received \$50,000 cash and issued stock to the owners

A1				
	A	B	C	D
1	Cash	50,000		
2	Common Stock		50,000	
3	<i>Issued common stock.</i>			
4				

	Assets	=	Liabilities	+	Stockholders' Equity
<i>Accounting equation</i>	+50,000	=	0	+	50,000
	<u>Cash</u>		<u>Common Stock</u>		
<i>The ledger accounts</i>	(1) 50,000			(1) 50,000	





# Transaction 2

(2) Paid \$40,000 cash for land

A1					
	A	B	C	D	E
1	Land	40,000			
2	Cash		40,000		
3	Paid cash for land.				
4					

	Assets	=	Liabilities	+	Stockholders' Equity
Accounting equation	+ 40,000	=	0	+	0
	- 40,000				
	Cash				Land
The ledger accounts	(1) 50,000	(2) 40,000	(2) 40,000		



# Transaction 3

(3) Purchased supplies for \$3,700 on account

A1					
	A	B	C	D	E
1	Supplies	3,700			
2	Accounts Payable		3,700		
3	<i>Purchased office supplies on account.</i>				
4					

	Assets	=	Liabilities	+	Stockholders' Equity
<i>Accounting equation</i>	+ 3,700	=	+ 3,700	+	0

	Supplies		Accounts Payable	
<i>The ledger accounts</i>	(3)	3,700	(3)	3,700



# Transaction 4

(4) Performed services and received cash of \$7,000

A1					
	A	B	C	D	E
1	Cash	7,000			
2	Service Revenue		7,000		
3	Performed services for cash.				
4					

	Assets = Liabilities + Stockholders' Equity + Revenues			
Accounting equation	+ 7,000	=	0	+ 7,000
	Cash		Service Revenue	
The ledger accounts	(1) 50,000	(2) 40,000	(4) 7,000	
	(4) 7,000			



# Transaction 5

(5) Performed services for a customer on account, \$3,000

A1					
	A	B	C	D	E
1	Accounts Receivable	3,000			
2	Service Revenue		3,000		
3	Performed services on account.				
4					

	<u>Assets = Liabilities + Stockholders' Equity + Revenues</u>			
Accounting equation	+ 3,000	=	0	+ 3,000
	<u>Accounts Receivable</u>		<u>Service Revenue</u>	
The ledger accounts	(5)	3,000	(4)	7,000
			(5)	3,000



# Transaction 6

(6) Paid cash expenses: rent, \$1,100; employee salary, \$1,200; utilities, \$400

	A	B	C	D	E
1	Rent Expense	1,100			
2	Salary Expense	1,200			
3	Utilities Expense	400			
4	Cash		2,700		
5	<i>Paid expenses.</i>				
6					

**Assets = Liabilities + Stockholders' Equity - Expenses**

*Accounting equation*

- 2,700 = 0 - 2,700

*The ledger accounts*

Cash		Rent Expense	
(1) 50,000	(2) 40,000	(6) 1,100	
(4) 7,000	(6) 2,700		
Salary Expense		Utilities Expense	
(6) 1,200		(6) 400	



# Transaction 7

(7) Paid \$1,900 on the payable created in transaction 3

A1					
	A	B	C	D	E
1	Accounts Payable	1,900			
2	Cash		1,900		
3	Paid cash on account.				
4					

	Assets	=	Liabilities	+	Stockholders' Equity
<i>Accounting equation</i>	- 1,900	=	- 1,900	+	0
	Cash		Accounts Payable		
<i>The ledger accounts</i>	(1) 50,000	(2) 40,000	(7) 1,900	(3) 3,700	
	(4) 7,000	(6) 2,700			
		(7) 1,900			



## **Transaction 8**

(8) Stockholder of Alladin remodeled her home with personal funds

**No Entry**



# Transaction 9

(9) Received \$1,000 on account

A1					
	A	B	C	D	E
1	Cash	1,000			
2	Accounts Receivable		1,000		
3	Collected cash on account.				
4					

	Assets		=	Liabilities		+	Stockholders' Equity	
<i>Accounting equation</i>	+ 1,000		=	0		+	0	
	− 1,000							
	Cash				Accounts Receivable			
<i>The ledger accounts</i>	(1)	50,000	(2)	40,000	(5)	3,000	(9)	1,000
	(4)	7,000	(6)	2,700				
	(9)	1,000	(7)	1,900				





# Transaction 10

(10) Sold land for cash at the land's cost of \$22,000

A1					
	A	B	C	D	E
1	Cash	22,000			
2	Land		22,000		
3	Sold land.				
4					

	Assets		=	Liabilities		+	Stockholders' Equity	
Accounting equation	+ 22,000		=	0		+	0	
	− 22,000							
	Cash				Land			
The ledger accounts	(1)	50,000	(2)	40,000	(2)	40,000	(10)	22,000
	(4)	7,000	(6)	2,700				
	(9)	1,000	(7)	1,900				
	(10)	22,000						



# Transaction 11

(11) Declared and paid a dividend of \$2,100 to stockholders

A1					
	A	B	C	D	E
1	Dividends	2,100			
2	Cash		2,100		
3	<i>Declared and paid dividends.</i>				
4					

	Assets = Liabilities + Stockholders' Equity - Dividends			
<i>Accounting equation</i>	- 2,100	=	0	- 2,100
	Cash		Dividends	
<i>The ledger accounts</i>	(1) 50,000	(2) 40,000	(11) 2,100	
	(4) 7,000	(6) 2,700		
	(9) 1,000	(7) 1,900		
	(10) 22,000	(11) 2,100		



## Exhibit 2-11 | Alladin Travel, Inc.'s, Ledger Accounts after Posting

Assets		=	Liabilities		+	Stockholders' Equity	
<b>Cash</b>			<b>Accounts Payable</b>			<b>Common Stock</b>	<b>Dividends</b>
(1) 50,000	(2) 40,000		(7) 1,900	(3) 3,700		(1) 50,000	(11) 2,100
(4) 7,000	(6) 2,700			Bal 1,800		Bal 50,000	Bal 2,100
(9) 1,000	(7) 1,900						
(10) 22,000	(11) 2,100						
Bal 33,300							
<b>Accounts Receivable</b>						<b>Revenue</b>	<b>Expenses</b>
(5) 3,000	(9) 1,000					<b>Service Revenue</b>	<b>Rent Expense</b>
Bal 2,000						(4) 7,000	(6) 1,100
						(5) 3,000	Bal 1,100
						Bal 10,000	
<b>Supplies</b>							<b>Salary Expense</b>
(3) 3,700							(6) 1,200
Bal 3,700							Bal 1,200
<b>Land</b>							<b>Utilities Expense</b>
(2) 40,000	(10) 22,000						(6) 400
Bal 18,000							Bal 400



# **Learning Objective Six**

**Construct and use a trial balance**



# **Construct and use a trial balance**

## **Trial Balance**

- Lists all accounts with their balances
- Assets listed first, then liabilities and stockholders' equity
- Shows that debits equal credits
- Usually prepared at the end of the period
- Facilitates preparation of the financial statements

A1				
	A	B	C	D
1	Alladin Travel, Inc. Trial Balance April 30, 2016			
2		Balance		
3	Account Title	Debit	Credit	
4	Cash	\$33,300		
5	Accounts receivable	2,000		
6	Supplies	3,700		
7	Land	18,000		
8	Accounts payable		\$ 1,800	
9	Common stock		50,000	
10	Dividends	2,100		
11	Service revenue		10,000	
12	Rent expense	1,100		
13	Salary expense	1,200		
14	Utilities expense	400		
15	Total	\$61,800	\$61,800	
16				

## Exhibit 2-12 | Trial Balance



# Analyzing Accounts

Suppose Alladin's began May with cash of \$1,000. During May, Alladin's received cash of \$8,000 and ended the month with a cash balance of \$3,000.

You can compute total cash payments by analyzing Alladin's Cash account:

Cash		
Beginning balance	1,000	$x = \text{beginning balance} + \text{cash receipts} - \text{ending balance}$ $= 1,000 + 8,000 - 3,000$ $x = 6,000$
Cash receipts	8,000	
Ending balance	3,000	
		Cash payments



# Analyzing Accounts

You can compute either sales on account or cash collections on account by analyzing the Accounts Receivable account (using assumed amounts):

Accounts Receivable		
Beginning balance	6,000	$x = \text{beginning balance} + \text{sales on account} - \text{ending balance}$ $= 6,000 + 10,000 - 5,000$
Sales on account	10,000	Collections on account $x = 11,000$
Ending balance	5,000	





# Analyzing Accounts

You can determine how much you paid on account by analyzing Accounts Payable (using assumed amounts):

Accounts Payable			
$x = \text{beginning balance} + \text{purchases on account} - \text{ending balance}$ $= 9,000 + 6,000 - 11,000$			
Payments on account	$x = 4,000$	Beginning balance	9,000
		Purchases on account	6,000
		Ending balance	11,000



# Correcting Accounting Errors

First compute the difference between debits and credits in the trial balance.

- Search for missing accounts
- Divide the out-of-balance amount by 2
- Divide the out-of-balance amount by 9
  - Slide
  - Transposition



## Exhibit 2-13 | Chart of Accounts—Alladin Travel, Inc.

### Balance Sheet Accounts

#### Assets

101 Cash  
111 Accounts Receivable  
141 Supplies  
151 Land  
191 Office Furniture

#### Liabilities

201 Accounts Payable  
231 Notes Payable

#### Stockholders' Equity

301 Common Stock  
311 Retained Earnings  
312 Dividends

### Income Statement Accounts (Part of Stockholders' Equity)

#### Revenues

401 Service Revenue

#### Expenses

501 Rent Expense  
502 Salary Expense  
503 Utilities Expense



## Exhibit 2-14 | Normal Balances of the Accounts

Assets .....	Debit	
Liabilities .....		Credit
Stockholders' Equity—overall .....		Credit
Common stock.....		Credit
Retained earnings.....		Credit
Dividends .....	Debit	
Revenues .....		Credit
Expenses .....	Debit	



## Exhibit 2-15 | Account in Four-Column Format

Account: Cash				Account No. 101	
Date	Item	Debit	Credit	Balance	
				Debit	Credit
2016					
Apr 2		50,000		50,000	
3			40,000	10,000	