





## **Learning Goal 20**

## **Reinforcement Problems**

## LG 20-1.

Cash	Dean Jones, Capital	Supplies	Notes Payable	Wages Payable
+	+	+	+	+
Equipment	Accounts Receivable	Accounts Payable	Notes Receivable	Land
+	+	+	+	+

LG 20-2. The natural positive side of an account is an essential point of reference. When the natural positive side is agreed upon, then both the increases and decreases can be recorded in a consistent and accurate way. The natural positive side is used to: (1) record account increases; and (2) show account balances. The opposite side then becomes the side used for decreases.

#### LG 20-3.

a.	Cash		Accounts Receivable		
	750			750	

- Increase/decrease: Cash increases and Accounts Receivable decreases.
- **Description:** The business collected \$750 cash from customers who owed the business on account.

b.	o. Supplies		Account	s Payable
	1,000			1,000

- Increase/decrease: Supplies increases and Accounts Payable increases.
- **Description:** The business purchased \$1,000 of supplies on account (on credit).

c.	Cash		Sup	plies
		500	500	

- Increase/decrease: Cash decreases and Supplies increases.
- **Description:** The business purchased \$500 of supplies for cash.

d.	Equip	ment	_	Ca	sh	Notes F	Payable
	15,000				5,000		10,000

- Increase/decrease: Equipment increases, Cash decreases, and Notes Payable increases.
- **Description:** The business purchased \$15,000 of equipment, paying \$5,000 cash and signing a note payable for \$10,000.









#### **S2** Section V · Using a Basic Accounting System

## **SOLUTIONS**

### Learning Goal 20, continued

LG 20-3, continued

- Accts. Payable 300 300
  - Increase/decrease: Cash decreases and Accounts Payable decreases.
  - **Description:** The business used \$300 cash to pay \$300 owing of accounts payable.

f. Accts. Receivable		Anna Chan, Capital		
	2,800			2,800

- Increase/decrease: Accounts Receivable increases and Anna Chan, Capital increases.
- **Description:** (from operations) The business earned \$2,800 revenue by providing services to customers on account. Revenue earned increases the owner's capital.

g.	Prepaid I	nsurance	Cash	
	500			500

- **Increase/decrease:** Prepaid Insurance increases and Cash decreases.
- **Description:** The business used up \$500 cash to buy some prepaid insurance.

h	Supplies		Anna Chan, Capital		
		150		150	

- Increase/decrease: Supplies decrease and Anna Chan, Capital decreases.
- **Description:** (from operations) The business used up \$150 of supplies; this is an expense that decreased the owner's capital.

i.	Ca	ish	Unearned	d Revenue
	750			750

- Increase/decrease: Cash increases and the liability Unearned Revenue increases.
- **Description:** The business received a \$750 advance payment from a customer, before services were provided to the customer.

j.	Cash	Anna Chan, Capi	tal
	1,000	1,000	

- Increase/decrease: Cash decreases and Anna Chan, Capital decreases.
- Description: (not from operations) The owner, Anna Chan, withdrew \$1,000 cash from her business for personal use.











#### Learning Goal 20, continued

#### LG 20-3, continued



- Increase/decrease: Accounts Payable increases and Anna Chan, Capital decreases.
- **Description:** (from operations) The business received a \$750 bill for an expense, but the bill was not paid immediately. An expense reduces the owner's capital.

1.	Cash	Accounts Receivable	Anna Chan	, Capital
	500	1,500		2,000

- Increase/decrease: Cash increases, Accounts Receivable increases, and Anna Chan, Capital
- **Description:** (from operations) The business earned \$2,000 revenue by providing services to a customer; the customer made a cash payment of \$500 and will pay the rest later. (Revenue earned increases the owner's capital.)

#### LG 20-4.

a. St. Phillips Company



- **Analysis** (*identify which accounts increase and/or which accounts decrease*): The **asset** Supplies **increases** by \$800 and the **liability** Accounts Payable **increases** by \$800.
- **Rules** (specify what entries on the left or right side of the accounts are required): Assets are increased by a left-side entry, so record \$800 on the left side of Supplies. Liabilities are increased by a right-side entry, so record \$800 on the right side of Accounts Payable.











**S4** Section V · Using a Basic Accounting System

## **SOLUTIONS**

## Learning Goal 20, continued

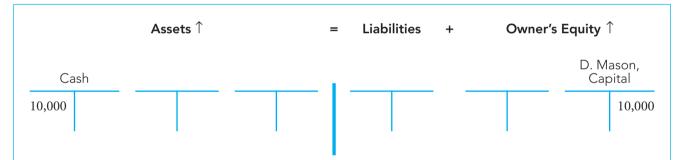
LG 20-4, continued

b. Bryan Company



- **Analysis** (identify which accounts increase and/or which accounts decrease): The **asset** Cash **increases** by \$1,000 and the asset Accounts Receivable decreases by \$1,000.
- **Rules** (specify what entries on the left or right side of the accounts are required): Assets are increased by a left-side entry, so record \$1,000 on the left side of Cash. Assets are decreased by a right-side entry, so record \$1,000 on the right side of Accounts Receivable.

## c. Mountain View Company



- **Analysis** (*identify which accounts increase and/or which accounts decrease*): The **asset** Cash **increases** by \$10,000 and the **owner's equity** D. Mason, **increases** by \$10,000.
- Rules (specify what entries on the left or right side of the accounts are required): Assets are increased by a left-side entry, so record \$10,000 on the left side of Cash. Owner's equity is increased by a right-side entry, so record \$10,000 on the right side of D. Mason Capital.











## Learning Goal 20, continued

LG 20-4, continued

d. Richland Company

Assets ↑	= Liabilities ↑	↑ + Owner's Equity
Cash 400	Unearned Revenue 400	

- Analysis (identify which accounts increase and/or which accounts decrease): The asset Cash increases by \$400 and the liability Unearned Revenue increases by \$400.
- Rules (specify what entries on the left or right side of the accounts are required): Assets are increased by a left-side entry, so record \$400 on the left side of Cash. Liabilities are increased by a right-side entry, so record \$400 on the right side of Unearned Revenue.

#### e. North Harris Company

Assets↓↑	= Liabilities ↑ +	Owner's Equity
Cash Computer Equipment 5,000	Notes Payable 2,000	

- **Analysis** (*identify which accounts increase and/or which accounts decrease*): The **asset** Cash **decreases** by \$3,000, the asset Equipment increases by \$5,000, and the liability Notes Payable increases by \$2,000.
- **Rules** (specify what entries on the left or right side of the accounts are required): Assets are decreased by a rightside entry, so record \$3,000 on the right side of Cash. Assets are increased by a left-side entry, so record \$5,000 on the left side of Equipment. Liabilities are increased by a right-side entry, so record \$2,000 on the right side of Notes Payable.









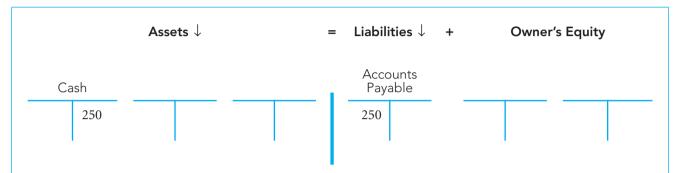
**S6** Section V · Using a Basic Accounting System

## **SOLUTIONS**

## Learning Goal 20, continued

LG 20-4, continued

f. San Jacinto Company



- Analysis (identify which accounts increase and/or which accounts decrease): The asset Cash decreases by \$250 and the liability Accounts Payable decreases by \$250.
- Rules (specify what entries on the left or right side of the accounts are required): Assets are decreased by a rightside entry, so record \$250 on the right side of Cash. Liabilities are decreased by a left-side entry, so record \$250 on the left side of Accounts Payable.

### g. El Paso Company

	Assets ↑	=	Liabilities	+	Owner's	Equity ↑
Accts. Rec.		 1				Diane Lee, Capital
750						750

- Analysis (identify which accounts increase and/or which accounts decrease): The asset Accounts Receivable increases by \$750 and the owner's equity Diane Lee, Capital increases by \$750.
- Rules (specify what entries on the left or right side of the accounts are required): Assets are increased by a left-side entry, so record \$750 on the left side of Accounts Receivable. Owner's equity is increased by a right-side entry, so record \$750 on the right side of Diane Lee, Capital.











## Learning Goal 20, continued

LG 20-4, continued

h. Tarrant Company

Assets ↓	=	=	Liabilities	+	Owner's	s Equity $\downarrow$
Supplies 100		•				xxx, Capital

- **Analysis** (*identify which accounts increase and/or which accounts decrease*): The **asset** Supplies **decreases** by \$100 and the **owner's equity** xxx, Capital **decreases** by \$100.
- **Rules** (specify what entries on the left or right side of the accounts are required): Assets are decreased by a rightside entry, so record \$100 on the right side of Supplies. Owner's equity is decreased by a left-side entry, so record \$100 on the left side of xxx, Capital.

#### i. Kingwood Company



- Analysis (identify which accounts increase and/or which accounts decrease): The liability Accounts Payable increases by \$500 and the owner's equity xxx, Capital decreases by \$500.
- Rules (specify what entries on the left or right side of the accounts are required): Liabilities are increased by a right-side entry, so record \$500 on the right side of Accounts Payable. Owner's equity is decreased by a left-side entry, so record \$500 on the left side of xxx, Capital.











## **S8** Section V · Using a Basic Accounting System

## **SOLUTIONS**

## Learning Goal 20, continued

## LG 20-4, continued

j. Grayson Company

Assets ↑ =		Liabilities	+	Owner's	Equity ↑	
750				_		xxx, Capital 750

- **Analysis** (*identify which accounts increase and/or which accounts decrease*): The **asset** Cash **increases** by \$750 and the **owner's equity** xxx, Capital **increases** by \$750.
- Rules (specify what entries on the left or right side of the accounts are required): Assets are increased by a left-side entry, so record \$750 on the left side of Cash. Owner's equity is increased by a right-side entry, so record \$750 on the right side of xxx, Capital.

## LG 20-5.

a.	Cash					
	5,000 1,200 5,000 <b>7,950</b>	750 2,500				

b.	Account	Accounts Payable					
	850	550					
		500					
		3,000					
		3,200					

c.	xxx, C	xxx, Capital				
	350 2,000	3,500 5,000 <u>950</u> <b>7,100</b>				

d.	xxx, C	xxx, Capital					
	5,000 2,000	5,000 1,000					
	1,000	1,000					

f.	Wages	Payable
		500 4,000 <b>4,500</b>











# **SOLUTIONS**

# **Learning Goal 20, continued**

HONS			_earning	Goal	20, con	tinue	<b>3a</b>	
OE	R. Marcus, Capital	(a) 50,000 (d) 1,750	(h) 2,200 (m) 1,500	52,825				
+	R. Marc		(e) 1,100 (g) 125	(n) 1,400				
	Unearned Revenue	(f) 2,380	880					
_	Unearned	(m) 1,500						
	Accounts Payable	(b) 520 (g) 125	<u>295</u>		(i) 5,000			
	Acco Pay		(k) 350	() ()				
II	ınts able	(1) 1,000				nent		
	Accounts Receivable	(d) $\frac{1,750}{750}$	_			Equipment	(c) 7,550	
∢	ے	(c) 7,550 (e) 1,100	(i) 295 (j) 10,000	(k) 350 (n) 1,400		ies		D
	Cash	(a) 50,000	(f) 2,380 (h) 2,200	$(1) \frac{1,000}{34.985}$	1300°E	Supplies	(b) 520 (i) 295 815	Land (j) 15,000









## **\$10** Section V · Using a Basic Accounting System

## **SOLUTIONS**

## Learning Goal 20, continued

LG 20-7. Whenever you are asked to analyze an account, you have two good choices:

- Use a formula that calculates the balance of an account: **beginning balance** + **increases** decreases = ending balance.
- You can also draw a T account. Fill in what you know, and then calculate what is missing. Each of the solutions below show both approaches.

a. 
$$4,500 + X - 5,500 = 3,100$$
. So,  $X = 4,100$  of purchases.

b. 
$$7,800 + 12,500 - X = 15,900$$
. So,  $X = 4,400$  of collections. (increases to A/R are from making credit sales)

Or:	Accounts Receivable					
	7,800 12,500	?				
	15,900					

c. 
$$8,850 + X - 12,000 = 3,300$$
. So,  $X = 6,450$  of purchases on account.

Or:

d. 
$$X + 55,200 - 81,000 = 75,700$$
. So,  $X = 101,500$ .











## **SOLUTIONS**

## **Learning Goal 20, continued**

## LG20-8.

Wilson Appliance Services Comp Income statement	any	
For the Year Ending June 30, 20	18	
Services Revenue		\$452,700
Expenses		
Wages expense	\$293,250	
Rent expense	42,000	
Utilities expense	12,180	
Supplies expense	9,250	
Insurance expense	5,430	
Office expense	1,150	
Total expenses		363,260
Net income		<u>\$99,440</u>

### Wilson Appliance Services Company Statement of Owner' Equity For the Year Ending June 30, 2018

J. Wilson, capital July 1	\$291,840
Add: Net income	\$ 99,440
Less: Withdrawals	(65,000)
J. Wilson, capital June 30	\$326,280

# Wilson Appliance Services Company **Balance Sheet**

June 30, 2018	
Assets	
Cash	\$149,600
Accounts receivable	15,640
Supplies	32,980
Prepaid insurance	4,800
Equipment	288,100
Total assets	\$491,120.004
	91,120
Liabilities	
Wages payable	\$24,300
Accounts payable	6,390
Unearned revenue	9,150
Notes payable	125,000
Total liabilities	164,840
Owner's Equity	
J. Wilson, Capital	326,280
Total liabilities and owner's equity	\$491,120

Cash is calculated as \$491,000 total liabilities and owner's equity minus all other assets except cash (\$341,520).





