## SOLUTIONS

## Learning Goal 20

## Reinforcement Problems

LG 20-1.


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.


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

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

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

- 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 $\$ 10,000$.


## SOLUTIONS

LG 20-3, continued
e.


| Accts. Payable |
| :---: |
| 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 $\quad$| Anna Chan, Capital |
| :--- |
| 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.

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

- 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.

- 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.


| Anna Chan, Capital |  |
| :---: | :---: |
| 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.


## SOLUTIONS

## Learning Goal 20, continued

LG 20-3, continued

k. Accounts Payable | 750 |  | Anna Chan, Capital |  |
| :--- | :--- | :--- | :---: |
|  | 750 |  |  |

- 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. 



| Anna Chan, Capital |  |
| :---: | :--- |
|  | 2,000 |

- Increase/decrease: Cash increases, Accounts Receivable increases, and Anna Chan, Capital increases.
- 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


## 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



## SOLUTIONS

## Learning Goal 20, continued

LG 20-4, continued
d. Richland Company


- 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



## SOLUTIONS

LG 20-4, continued
f. San Jacinto Company

g. El Paso Company


- 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.


## SOLUTIONS

## Learning Goal 20, continued

LG 20-4, continued
h. Tarrant Company

|  | Assets $\downarrow$ | = | Liabilities | + | Owner's Equity |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Supplies |  |  |  |  | xxx, C | Capital |
| 100 |  |  |  |  | 100 |  |

- 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.


## SOLUTIONS Learning Goal 20, continued

LG 20-4, continued
j. Grayson Company


- 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 | 750 |
| $\frac{5,000}{7,950}$ | 2,500 |
|  |  |

b.

| Accounts Payable |  |
| :---: | ---: |
| 850 | 550 |
|  | 500 |
|  | $\underline{3,000}$ |
|  | $\mathbf{3 , 2 0 0}$ |

c.

| xxx, Capital |  |
| ---: | ---: |
| 350 | 3,500 |
| 2,000 | 5,000 |
|  | $\mathbf{9 5 0}$ |

d.

| xxx, Capital |  |
| :--- | :--- |
| 5,000 | 5,000 |
| $\mathbf{2 , 0 0 0}$ | 1,000 |
| $\mathbf{1 , 0 0 0}$ |  |

e.

| Supplies |  |  |
| :---: | :--- | :---: |
| $\frac{150}{500}$ | 300 |  |
| $\frac{\mathbf{3 5 0}}{}$ |  |  |

f.

| Wages Payable |  |
| :---: | ---: |
|  | 500 |
|  | $\underline{4,000}$ |
| $\mathbf{4 , 5 0 0}$ |  |

## SOLUTIONS Learning Goal 20, continued

$$
\begin{aligned}
& \text { II }
\end{aligned}
$$

## 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. $4,500+\mathrm{X}-5,500=3,100$. So, $\mathrm{X}=\mathbf{4 , 1 0 0}$ of purchases.

Or:

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

Or:

| Accounts Receivable |  |
| ---: | ---: |
| 7,800 |  |
| 12,500 | $?$ |
| 15,900 |  |

c. $8,850+X-12,000=3,300$. So, $X=\mathbf{6 , 4 5 0}$ of purchases on account.
Or:

| Accounts Payable |  |
| :---: | :---: |
| 12,000 | 8,850 |
|  | $-\quad ?-$ |
|  | 3,300 |

d. $X+55,200-81,000=75,700$. So, $X=\mathbf{1 0 1 , 5 0 0}$.

Or:


## SOLUTIONS

## Learning Goal 20, continued

## LG20-8.



## Wilson Appliance Services Company Statement of Owner' Equity <br> 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 <br> June 30, 2018

Assets
Cash . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . \$149,600
Accounts receivable. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 15,640
Supplies . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 32,980
Prepaid insurance . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 4,800
Equipment. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 288,100
Total assets. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\quad$ \$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 |
| tal liabilities | \$491,120 |

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

