Financial Accounting - Information for Decisions 11th edition Wild Solutions Manual

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Chapter 1

Introducing Financial Statements

QUICK STUDIES

Quick Study 1-1 (10 minutes)

1.	f	Artificial Intelligence
2.	c	Recording
3.	h	Recordkeeping (bookkeeping)

Quick Study 1-2 (10 minutes)

a.	External user	g.	External user
b.	External user	h.	External user
c.	External user	i.	Internal user
d.	External user	j.	External user
e.	Internal user	k.	External user
f.	External user	l.	External user

Quick Study 1-3 (10 minutes)

1.	Opportunity	4.	Opportunity
2.	Pressure	5.	Pressure
3.	Rationalization	6.	Rationalization

Quick Study 1-4 (5 minutes)

1.	Principle	3.	Assumption
2.	Assumption	4.	Principle

Quick Study 1-5 (10 minutes)

	Attribute Present	Proprietorship	Partnership	Corporation	LLC
1.	Business taxed	no	no	yes	no
2.	Limited liability	no	no	yes	yes
3.	Legal entity	no	no	yes	yes

Quick Study 1-6 (10 minutes)

1. Revenue recognition principle
2. Measurement (cost) principle
3. Business entity assumption

Quick Study 1-7 (5 minutes)

Assets	=	Liabilities	+	Equity
$700,000		(a) $280,000		$420,000
$500,000		(b) $250,000		(b) $250,000

Quick Study 1-8 (10 minutes)

1.

Assets	=	Liabilities	+	Equity
$75,000		(a) $35,000		$40,000
(b) $95,000		$25,000		$70,000
$85,000		$20,000		(c) $65,000

2.

Assets	=	Liabilities	+ Common Stock	− Dividends	+ Revenues	− Expenses
$40,000		$16,000	$20,000	$ 0	(a) $12,000	$ 8,000
$80,000		$32,000	$44,000	(b) $2,000	$24,000	$18,000

Quick Study 1-9 (5 minutes)

a. Increase

b. Decrease

c. Increase

d. Decrease

Quick Study 1-10 (15 minutes)

	Assets			=	Liabilities +		Equity						
	Cash	+	Accounts Recble.	=	Accounts Payable	+	Common Stock	−	Dividends	+	Revenues	−	Expenses
(a)	$5,500			=							$5,500 Consulting		
(b)		+	$4,000	=						+	4,000 Commission		
Bal.	5,500	+	4,000	=						+	9,500		
(c)	−1,400			=								−	$1,400 Wages
Bal.	4,100	+	4,000	=						+	9,500	−	1,400
(d)	+1,000	+	−1,000	=								−	
Bal.	5,100	+	3,000	=						+	9,500	−	1,400
(e)	−700	+		=								−	700 Cleaning
Bal.	$4,400	+	$3,000	=						+	$9,500	−	$2,100

Quick Study 1-11 (15 minutes)

	Assets							=	Liabilities	+			Equity				
	Cash	+	Supplies	+	Equip.	+	Land	=	Accts. Pay.	+	Common Stock	−	Divi-dends	+	Rev.	−	Exp.
(a)	$15,000							=			$15,000						
(b)	−500	+	$500					=									
Bal.	14,500	+	500					=		+	15,000						
(c)				+	$10,000			=			10,000						
Bal.	14,500	+	500	+	10,000			=		+	25,000						
(d)		+	200					=	+$200								
Bal.	14,500	+	700	+	10,000			=	200	+	25,000						
(e)	−9,000					+	$9,000	=									
Bal.	$5,500	+	$700	+	$10,000	+	$9,000	=	$200	+	$25,000						

Quick Study 1-12 (10 minutes)

a. Balance sheet
b. Statement of cash flows
c. Balance sheet
d. Income statement
e. Balance sheet
f. Statement of cash flows
g. Income statement
h. Balance sheet

Quick Study 1-13 (5 minutes)

1.	Expenses	4.	Dividends	7.	Expenses
2.	Revenues	5.	Expenses	8.	Revenues
3.	Expenses	6.	Revenues		

Quick study 1-14 (5 minutes)

1.	Assets	3.	Assets	5.	Assets
2.	Liabilities	4.	Liabilities	6.	Assets

Quick Study 1-15 (15 minutes)

HAWKIN
Income Statement
For Month Ended December 31

Revenues		
Services revenue		$16,000
Expenses		
Wages expense	$8,000	
Rent expense	1,500	
Utilities expense	700	
Total expenses		10,200
Net income		$ 5,800

Quick Study 1-16 (15 minutes)

HAWKIN
Statement of Retained Earnings
For Month Ended December 31

Retained earnings, December 1	$4,000
Add: Net income	5,800
	9,800
Less: Dividends	(1,000)
Retained earnings, December 31	$8,800

Quick Study 1-17 (15 minutes)

HAWKIN
Balance Sheet
December 31

Assets		*Liabilities*	
Cash	$ 5,100	Accounts payable	$ 6,000
Accounts receivable	600	Total liabilities	6,000
Supplies	2,000	*Equity*	
Equipment	14,000	Common stock	6,900
		Retained earnings	8,800
		Total equity	15,700
Total assets	$21,700	Total liabilities and equity	$21,700

Quick Study 1-18 (15 minutes)

STUDIO ONE
Statement of Cash Flows
For Month Ended December 31

Cash flows from operating activities	
Cash received from customers	$23,500
Cash paid for expenditures	(6,000)
Net cash provided by operating activities	17,500
Cash flows from investing activities	
Cash paid for equipment	(3,000)
Cash paid for truck	(22,000)
Net cash used by investing activities	(25,000)
Cash flows from financing activities	
Cash investments from shareholders	11,000
Cash dividends to shareholders	(2,000)
Net cash provided by financing activities	9,000
Net increase in cash	$ 1,500
Cash balance, December 1	1,000
Cash balance, December 31	$ 2,500

Quick Study 1-19 (10 minutes)

1. **Investing activities**
2. **Investing activities**
3. **Operating activities**
4. **Operating activities**
5. **Operating activities**
6. **Operating activities**
7. **Operating activities**
8. **Financing activities**

Quick Study 1-20 (5 minutes)

Improve

***Explanation*: Deutsche Auto's return on assets increased in each of the years shown, which is a positive finding. It suggests the company is more effectively using its assets to generate net income.**

Quick Study 1-21 (10 minutes)

a.

$$\text{Return on assets} = \frac{\text{Net income}}{\text{Average total assets}} = \frac{\$8 \text{ billion}}{\$42 \text{ billion}} = \underline{\underline{19.0\%}}$$

b. Better

***Explanation*: The company's 19.0% return on assets exceeds the 11.0% return of its competitor. This is a positive result. It suggests the company is more effectively using its assets to generate net income in comparison to its competitor.**

EXERCISES

Exercise 1-1 (10 minutes)

1. Communicating
2. Communicating
3. Recording
4. Recording
5. Communicating
6. Identifying
7. Identifying
8. Recording

Exercise 1-2 (20 minutes)

Part A.

1. Internal user
2. External user
3. Internal user
4. External user
5. Internal user
6. External user
7. Internal user

Part B.

1. Internal user
2. Internal user
3. External user
4. External user
5. Internal user
6. External user
7. Internal user
8. Internal user

Exercise 1-3 (10 minutes)

1. Managerial accounting
2. Financial accounting
3. Managerial accounting
4. Managerial accounting
5. Tax accounting
6. Tax accounting
7. Financial accounting
8. Financial accounting

Exercise 1-4 (10 minutes)

1. A. Audit
2. G. Net income
3. D. FASB
4. F. Public accountants
5. C. Ethics

Exercise 1-5 (20 minutes)

1. E. Audit
2. D. Internal controls
3. C. Prevention
4. B. Fraud triangle
5. A. Ethics

Exercise 1-6 (10 minutes)

a. Corporation
b. Partnership
c. Sole proprietorship
d. Sole proprietorship
e. Corporation
f. Sole proprietorship
g. Corporation
h. Limited liability company

Exercise 1-7 (10 minutes)

	Principle or Assumption
a.	Full disclosure principle
b.	Going-concern assumption
c.	Expense recognition (matching) principle
d.	Business entity assumption
e.	Revenue recognition principle
f.	Measurement (cost) principle

Exercise 1-8 (15 minutes)

a. $10,000 recorded for truck.

Explanation: Accounting information is based on the measurement (cost) principle. This means for recording the asset's amount, it makes no difference that the seller was asking a higher price or that the owner believes the vehicle is worth more.

b. Revenue recorded by month:

May: $1,000
June: $0
July: $0

Explanation: Revenue recognition principle dictates that revenue is recognized when services are provided to customers, and not necessarily when customers pay for the services. In this case, all work was performed in May. Therefore, the revenue for this work is recorded in May.

Exercise 1-9 (10 minutes)

Assets	=	Liabilities	+	Equity
(a) $ 65,000	=	$ 20,000	+	$45,000
$100,000	=	$ 34,000	+	(b) $66,000
$154,000	=	(c) $114,000	+	$40,000

Exercise 1-10 (20 minutes)

a. **Using the accounting equation at the *beginning* of the year:**

Assets	=	Liabilities	+	Equity
$300,000	=	?	+	$100,000

Thus, *beginning* liabilities = $200,000

Using the accounting equation at the *end* of the year:

Assets	=	Liabilities	+	Equity
$300,000 + $80,000	=	$200,000+ $50,000	+	?
$380,000	=	$250,000	+	?

Thus, *ending* equity = $130,000

Alternative approach to solving part (b):
ΔAssets($80,000) = ΔLiabilities($50,000) + ΔEquity(?)
where "Δ" refers to "change in."
Thus: Ending Equity = $100,000 + $30,000 = $130,000

b. **Using the accounting equation:**

Assets	=	Liabilities	+	Equity
$123,000	=	$47,000	+	?

Thus, equity = $76,000

c. **Using the accounting equation at the *end* of the year:**

Assets	=	Liabilities	+	Equity
$190,000	=	$70,000 − $5,000	+	?
$190,000	=	$65,000	+	$125,000

Using the accounting equation at the *beginning* of the year:

Assets	=	Liabilities	+	Equity
$190,000 − $60,000	=	$70,000	+	?
$130,000	=	$70,000	+	?

Thus: *Beginning* Equity = <u>$60,000</u>

Exercise 1-11 (15 minutes)

a. **Using the accounting equation on January 1:**

Assets	=	Liabilities	+	Equity
?	=	$60,000	+	$40,000

Thus, *beginning* assets = $100,000

Using the accounting equation on January 3:

Assets	=	Liabilities	+	Equity
?	=	$60,000 + $6,000	+	$40,000
?	=	$66,000	+	$40,000

Thus, *January 3* assets = $106,000

Alternatively, we begin with $100,000 in assets, then add $10,000 in solar panels, then subtract $4,000 in cash→resulting in $106,000 in ending assets.

b. **Using the accounting equation on March 1:**

Assets	=	Liabilities	+	Equity
$100,000	=	$30,000	+	?

Thus, *beginning* equity = $70,000

Using the accounting equation on March 5:

Assets	=	Liabilities	+	Equity
$100,000 − $15,000	=	$30,000	+	?
$85,000	=	$30,000	+	?

Thus, *March 5* equity = $55,000

c. **Using the accounting equation on August 1:**

Assets	=	Liabilities	+	Equity
$30,000	=	$10,000	+	?

Thus, *beginning* equity = $20,000

Using the accounting equation on August 5:

Assets	=	Liabilities	+	Equity
$30,000 + $10,000	=	$10,000	+	?
$40,000	=	$10,000	+	?

Thus, August 5 equity = $30,000

Exercise 1-12 (20 minutes)

1. **d.** The owner invested $40,000 cash in the business in exchange for its common stock.
2. **e.** The company purchased supplies for $3,000 by paying $2,000 cash and putting $1,000 on credit.
3. **a.** The company purchased equipment for $8,000 cash.
4. **f.** The company billed a customer $6,000 for services provided.
5. **h.** The company provided services for $1,000 cash.

Exercise 1-13 (20 minutes)

1. **f.** The company purchased land for $4,000 cash.
2. **a.** The company purchased $1,000 of supplies on credit.
3. **g.** The company billed a client $1,900 for services provided.
4. **h.** The company paid $1,000 cash toward an account payable.
5. **b.** The company collected $1,900 cash from an account receivable.

Exercise 1-14 (15 minutes)

a. **3.** Decreases an asset and decreases a liability.

b. **2.** Increases an asset and increases a liability.

c. **5.** Increases an asset and increases equity.

d. **1.** Decreases an asset and decreases equity.

e. **4.** Increases an asset and decreases an asset.

f. **5.** Increases an asset and increases equity.

Exercise 1-15 (30 minutes)

	Assets					=	Liabilities	+	Equity						
	Cash	+	Accounts Receivable	+	Equip-ment	=	Accounts Payable	+	Common Stock	−	Dividends	+	Revenues	−	Expenses
a.	+$60,000			+	$15,000	=		+	$75,000						
b.	− 1,500													−	$1,500
Bal.	58,500	+		+	15,000	=		+	75,000					−	1,500
c.				+	10,000		+$10,000								
Bal.	58,500	+		+	25,000	=	10,000	+	75,000					−	1,500
d.	+ 2,500											+	$2,500		
Bal.	61,000	+		+	25,000	=	10,000	+	75,000			+	2,500	−	1,500
e.		+	$8,000									+	8,000		
Bal.	61,000	+	8,000	+	25,000	=	10,000	+	75,000			+	10,500	−	1,500
f.	− 6,000			+	6,000										
Bal.	55,000	+	8,000	+	31,000	=	10,000	+	75,000			+	10,500	−	1,500
g.	− 3,000													−	3,000
Bal.	52,000	+	8,000	+	31,000	=	10,000	+	75,000			+	10,500	−	4,500
h.	+ 5,000	−	5,000												
Bal.	57,000	+	3,000	+	31,000	=	10,000	+	75,000			+	10,500	−	4,500
i.	− 10,000						− 10,000								
Bal.	47,000	+	3,000	+	31,000	=	0	+	75,000			+	10,500	−	4,500
j.	− 1,000									−	$1,000				
Bal.	$46,000	+	$3,000	+	$31,000	=	$ 0	+	$75,000	−	$1,000	+	$10,500	−	$4,500

Exercise 1-16 (20 minutes)

Equity:	***Beginning***	***Ending***
Assets	**$50,000**	**$80,000**
Liabilities...........................	**(22,000)**	**(35,000)**
Equity	**$28,000**	**$45,000**

a. Net income for year:

Equity, *beginning* of year.......................	**$28,000**
Plus stock issuances	**3,000**
Plus net income	**?**
Less cash dividends	**(7,000)**
Equity, *end* of year	**$45,000**

Therefore, net income must have been $21,000

b. Net income for year:

Equity, *beginning* of year.......................	**$28,000**
Plus stock issuances	**15,000**
Plus net income	**?**
Less cash dividends	**(0)**
Equity, *end* of year	**$45,000**

Therefore, net income must have been $ 2,000

c. Net income for year:

Equity, *beginning* of year.......................	**$28,000**
Plus stock issuances	**0**
Plus net income	**?**
Less cash dividends	**(12,000)**
Equity, *end* of year	**$45,000**

Therefore, net income must have been $29,000

Exercise 1-17 (20 minutes)

	a. Statement of Cash Flow Category	b. Cash Inflow/Outflow
1.	Cash flows from Operating Activities	Cash Inflow
2.	Cash flows from Financing Activities	Cash Inflow
3.	Cash flows from Operating Activities	Cash Outflow
4.	Cash flows from Investing Activities	Cash Outflow
5.	Cash flows from Operating Activities	Cash Outflow
6.	Cash flows from Financing Activities	Cash Outflow

Exercise 1-18 (15 minutes)

ERNST CONSULTING
Income Statement
For Month Ended December 31

Revenues		
Consulting revenue		$14,000
Expenses		
Salaries expense	$7,000	
Rent expense	3,550	
Telephone expense	760	
Miscellaneous expenses	580	
Total expenses		11,890
Net income		$ 2,110

Exercise 1-19 (15 minutes)

ERNST CONSULTING
Statement of Retained Earnings
For Month Ended December 31

Retained earnings, December 1		$ 0
Add:	Net income (from Exercise 1-18)	2,110
		2,110
Less:	Dividends	2,000
Retained earnings, December 31		$ 110

Exercise 1-20 (15 minutes)

ERNST CONSULTING
Balance Sheet
December 31

Assets		*Liabilities*	
Cash	$11,360	Accounts payable	$ 8,500
Accounts receivable	14,000	Total liabilities	8,500
Office supplies	3,250	*Equity*	
Office equipment	18,000	Common stock	84,000
Land	46,000	Retained earnings*	110
		Total equity	84,110
Total assets	$92,610	Total liabilities and equity	$92,610

* For computation of this amount see Exercise 1-19.

Exercise 1-21 (20 minutes)

ERNST CONSULTING
Statement of Cash Flows
For Month Ended December 31

Cash flows from operating activities	
Cash received from customers	$ 0
Cash paid to employees	(1,750)
Cash paid for rent	(3,550)
Cash paid for telephone expenses	(760)
Cash paid for miscellaneous expenses	(580)
Net cash used by operating activities	(6,640)
Cash flows from investing activities	
Cash paid for office equipment	(18,000)
Net cash used by investing activities	(18,000)
Cash flows from financing activities	
Cash investments from shareholders	38,000
Cash dividends to shareholders	(2,000)
Net cash provided by financing activities	36,000
Net increase in cash	$11,360
Cash balance, December 1	0
Cash balance, December 31	$11,360

Exercise 1-22 (15 minutes)

a.

JARVIS Statement of Retained Earnings For Year Ended December 31, Year 1		
Retained earnings, January 1, Year 1............		$ 0
Add:	Net income......................................	30,000
		30,000
Less:	Dividends..	(8,000)
Retained earnings, December 31, Year 1.......		$22,000

b.

JARVIS Statement of Retained Earnings For Year Ended December 31, Year 2		
Retained earnings, December 31, Year 1.......		$22,000
Add:	Net income......................................	50,000
		72,000
Less:	Dividends..	(14,000)
Retained earnings, December 31, Year 2.......		$58,000

Exercise 1-23 (25 minutes)

a.

TERRELL CO
Income Statement
For Year Ended December 31

Revenues		
Services revenue	$48,000	
Rent revenue	9,000	
Total revenue		$57,000
Expenses		
Salaries expense	37,000	
Advertising expense	3,000	
Utilities expenses	1,000	
Total expenses		41,000
Net income		$16,000

b.

TERRELL CO
Statement of Retained Earnings
For Year Ended December 31

Retained earnings, January 1		$ 0
Add:	Net income	16,000
		16,000
Less:	Dividends	(5,000)
Retained earnings, December 31		$11,000

Exercise 1-24 (25 minutes)

a.

MAHOMES CO
Statement of Retained Earnings
For Year Ended December 31

Retained earnings, January 1		$ 0
Add:	Net income	60,000
		60,000
Less:	Dividends	(22,000)
Retained earnings, December 31		$38,000

b.

MAHOMES CO
Balance Sheet
December 31

Assets		*Liabilities*	
Cash	$ 6,000	Accounts payable	$ 3,000
Accounts receivable	7,000	Total liabilities	3,000
Equipment	9,000	*Equity*	
Land	34,000	Common stock	15,000
		Retained earnings	38,000
		Total equity	53,000
Total assets	$56,000	Total liabilities and equity	$56,000

Exercise 1-25 (10 minutes)

Return on assets = Net income / Average total assets

= $40,000 / [($200,000 + $300,000) / 2]

= 16.0%

Better than competitors.

Explanation: Swiss Group's return on assets of 16% is markedly better than the 11% return of its competitors. Accordingly, its performance is assessed as superior to its competitors.

PROBLEM SET A

Problem 1-1A (25 minutes)

		a.				b.		
		Balance Sheet			Income Statement	Statement of Cash Flows		
	Transaction	Total Assets	Total Liab.	Total Equity	Net Income	Operating Activities	Investing Activities	Financing Activities
1	Owner invests $900 cash in business in exchange for stock	+900		+900				+900
2	Receives $700 cash for services provided	+700		+700	+700	+700		
3	Pays $500 cash for employee wages	−500		−500	−500	−500		
4	Buys $100 of equipment on credit	+100	+100					
5	Purchases $200 supplies on credit	+200	+200					
6	Buys equipment for $300 cash	+300 −300					−300	
7	Pays $200 on accounts payable	−200	−200			−200		
8	Provides $400 of services on credit	+400		+400	+400			
9	Pays $50 cash in dividends	−50		−50				−50
10	Collects $400 cash on account receivable	+400 −400				+400		

Problem 1-2A (40 minutes)

Part 1

Company A

(a) Equity at *beginning* of year:

Assets	$55,000
Liabilities	(24,500)
Equity	$30,500

(b) Equity at *end* of year:

Equity, *beginning* of year	$30,500
Plus stock issuances	6,000
Plus net income	8,500
Less cash dividends	(3,500)
Equity, *end* of year	$41,500

(c) Liabilities at *end* of year:

Assets	$58,000
Equity	(41,500)
Liabilities	$16,500

Part 2

Company B

(a) and (b)

Equity:	*Beginning*	*Ending*
Assets	$34,000	$40,000
Liabilities	(21,500)	(26,500)
Equity	$12,500	$13,500

(c) Net income for year:

Equity, *beginning* of year	$12,500
Plus stock issuances	1,400
Plus net income	?
Less cash dividends	(2,000)
Equity, *end* of year	$13,500

Therefore, net income must have been $ 1,600

Problem 1-2A *(Continued)*

Part 3
Company C

First, compute the beginning balance of equity:

	Beginning of Year
Assets	$24,000
Liabilities	(9,000)
Equity	$15,000

Next, find the ending balance of equity by completing this table:

Equity, *beginning* of year	$15,000
Plus stock issuances	9,750
Plus net income	8,000
Less cash dividends	(5,875)
Equity, *end* of year	$26,875

Finally, find the ending amount of assets by adding the ending balance of equity to the ending balance of liabilities:

	End of Year
Liabilities	$29,000
Equity	26,875
Assets	$55,875

Part 4
Company D

First, compute the beginning and ending equity balances:

	Beginning	*Ending*
Assets	$60,000	$85,000
Liabilities	(40,000)	(24,000)
Equity	$20,000	$61,000

Then, find the amount of stock issuances during the year:

Equity, *beginning* of year	$20,000
Plus stock issuances	?
Plus net income	14,000
Less cash dividends	0
Equity, *end* of year	$61,000
Thus, stock issuances must have been ...	$27,000

Problem 1-2A (*Concluded*)

Part 5

Company E

First, compute the balance of equity at *end* of year:

Assets	$113,000
Liabilities	(70,000)
Equity	$ 43,000

Next, find the beginning balance of equity as follows:

Equity, *beginning* of year	$?
Plus stock issuances	6,500
Plus net income	20,000
Less cash dividends	(11,000)
Equity, *end* of year	$43,000

Thus, the beginning balance of equity is:	$27,500

Finally, find the beginning amount of liabilities by subtracting the beginning balance of equity from the beginning balance of assets:

	Beginning of Year
Assets	$119,000
Equity	(27,500)
Liabilities	$ 91,500

Problem 1-3A (20 minutes)

Armani Company
Income Statement
For Current Year Ended December 31

Revenues		
Consulting revenue	$33,000	
Rental revenue	22,000	
Total revenues		$55,000
Expenses		
Salaries expense	20,000	
Rent expense	12,000	
Selling and administrative expenses	8,000	
Total expenses		40,000
Net income		$15,000

Problem 1-4A (20 minutes)

Armani Company
Statement of Retained Earnings
For Current Year Ended December 31

Retained earnings, Dec. 31, prior year		$ 3,000
Add:	Net income (from Problem 1-3A)	15,000
		18,000
Less:	Dividends	13,000
Retained earnings, Dec. 31, current year		$ 5,000

Problem 1-5A (20 minutes)

Armani Company
Balance Sheet
December 31

Assets		Liabilities	
Cash	$10,000	Accounts payable	$11,000
Accounts receivable	9,000	Total liabilities	11,000
Supplies	7,000	**Equity**	
Equipment	4,000	Common stock	14,000
		Retained earnings*	5,000
		Total equity	19,000
Total assets	$30,000	Total liabilities and equity	$30,000

* For computation of this amount see Problem 1-4A.

Problem 1-6A (15 minutes)

Kia Company
Statement of Cash Flows
For Current Year Ended December 31

Cash from operating activities	$ 6,000
Cash used by investing activities	(2,000)
Cash used by financing activities	(2,800)
Net increase in cash	$ 1,200
Cash, December 31, prior year	2,300
Cash, December 31, current year	$ 3,500

Problem 1-7A (60 minutes) *Part 1*

			Assets			=	Liabilities	+			Equity					
Date	Cash	+	Accounts Receivable	+	Equipment	=	Accounts Payable	+	Common Stock	−	Dividends	+	Revenues	−	Expenses	
May 1	+$40,000					=		+	$40,000							
1	− 2,200					=								−	$2,200	Rent
3				+	$1,890	=	+ $1,890									
5	− 750					=								−	750	Cleaning
8	+ 5,400					=						+	$5,400			
12		+	$2,500			=						+	2,500			
15	− 750					=								−	750	Salary
20	+ 2,500	−	2,500			=										
22		+	3,200			=						+	3,200			
25	+ 3,200	−	3,200			=										
26	− 1,890					=	− 1,890									
27				+	80	=	+ 80									
28	− 750					=								−	750	Salary
30	− 300					=								−	300	Telephone
30	− 280					=								−	280	Utilities
31	− 1,400					=				−	$1,400					
	$42,780	+	$ 0	+	$1,970	=	$ 80	+	$40,000	−	$1,400	+	$11,100	−	$5,030	

Problem 1-7A *(Continued)*
Part 2

The Gram Co.
Income Statement
For Month Ended May 31

Revenues		
Consulting services revenue		$11,100
Expenses		
Rent expense	$2,200	
Salaries expense................................	1,500	
Cleaning expense	750	
Telephone expense	300	
Utilities expense	280	
Total expenses....................................		5,030
Net income..		$ 6,070

The Gram Co.
Statement of Retained Earnings
For Month Ended May 31

Retained earnings, May 1	$ 0
Add: Net income..	6,070
	6,070
Less: Dividends	1,400
Retained earnings, May 31	$ 4,670

The Gram Co.
Balance Sheet
May 31

Assets		Liabilities	
Cash...............................	$42,780	Accounts payable..................	$ 80
Equipment.....................	1,970	Total liabilities	80
		Equity	
		Common stock	40,000
		Retained earnings	4,670
		Total equity	44,670
Total assets...................	$44,750	Total liabilities and equity	$44,750

Problem 1-7A (*Concluded)*

Part 3

The Gram Co.
Statement of Cash Flows
For Month Ended May 31

Cash flows from operating activities		
Cash received from customers	$11,100	
Cash paid for rent	(2,200)	
Cash paid for cleaning	(750)	
Cash paid for telephone	(300)	
Cash paid for utilities	(280)	
Cash paid to employees	(1,500)	
Net cash provided by operating activities		$ 6,070
Cash flows from investing activities		
Cash paid for equipment	(1,890)	
Net cash used by investing activities		(1,890)
Cash flows from financing activities		
Cash investment from shareholder	40,000	
Cash dividend to shareholder	(1,400)	
Net cash provided by financing activities		38,600
Net increase in cash		$42,780
Cash balance, May 1		0
Cash balance, May 31		$42,780

Problem 1-8A (60 minutes) *Part 1*

	Assets									=	Liabilities	+	Equity						
	Cash	+	Accounts Receivable	+	Supplies	+	Equipment	+	Building	=	Accounts Payable	+	Common Stock	−	Dividends	+	Revenues	−	Expenses
a.	+$70,000					+	$10,000					+	$80,000						
b.	− 40,000							+	$40,000										
Bal.	30,000					+	10,000	+	40,000	=		+	80,000						
c.	− 15,000					+	15,000												
Bal.	15,000					+	25,000	+	40,000	=		+	80,000						
d.				+	$1,200	+	1,700				+ $2,900								
Bal.	15,000			+	1,200	+	26,700	+	40,000	=	2,900	+	80,000						
e.	− 500																	−	$ 500
Bal.	14,500			+	1,200	+	26,700	+	40,000	=	2,900	+	80,000					−	500
f.		+	$2,800													+	$2,800		
Bal.	14,500	+	2,800	+	1,200	+	26,700	+	40,000	=	2,900	+	80,000			+	2,800	−	500
g.	+ 4,000															+	4,000		
Bal.	18,500	+	2,800	+	1,200	+	26,700	+	40,000	=	2,900	+	80,000			+	6,800	−	500
h.	− 3,275													−	$3,275				
Bal.	15,225	+	2,800	+	1,200	+	26,700	+	40,000	=	2,900	+	80,000	−	3,275	+	6,800	−	500
i.	+ 1,800	−	1,800																
Bal.	17,025	+	1,000	+	1,200	+	26,700	+	40,000	=	2,900	+	80,000	−	3,275	+	6,800	−	500
j.	− 700										− 700								
Bal.	16,325	+	1,000	+	1,200	+	26,700	+	40,000	=	2,200	+	80,000	−	3,275	+	6,800	−	500
k.	− 1,800																	−	1,800
Bal.	$14,525	+	$1,000	+	$1,200	+	$26,700	+	$40,000	=	$2,200	+	$80,000	−	$3,275	+	$6,800	−	$2,300

Problem 1-8A *(Concluded)*

Part 2

Biz Consulting's net income = $6,800 − $2,300 = $4,500

Problem 1-9A (60 minutes) *Part 1*

		Assets					=	Liabilities	+	Equity			
Date		Cash	+ Accounts Receivable	+ Supplies	+ Office Equipment	+ Electrical Equipment	=	Accounts Payable	+	Common Stock	− Dividends	+ Revenues	− Expenses
Dec.	1	+$65,000					=		+	$65,000			
	2	− 1,000											− $1,000
Bal.		64,000					=			65,000			− 1,000
	3	− 4,800				+ $13,000		+ $8,200					
Bal.		59,200				+ 13,000	=	8,200	+	65,000			− 1,000
	5	− 800		+ $ 800									
Bal.		58,400		+ 800		+ 13,000	=	8,200	+	65,000			− 1,000
	6	+ 1,200										+ $1,200	
Bal.		59,600		+ 800		+ 13,000	=	8,200	+	65,000		+ 1,200	− 1,000
	8				+ $2,530			+ 2,530					
Bal.		59,600		+ 800	+ 2,530	+ 13,000	=	10,730	+	65,000		+ 1,200	− 1,000
	15		+ $5,000									+ 5,000	
Bal.		59,600	+ 5,000	+ 800	+ 2,530	+ 13,000	=	10,730	+	65,000		+ 6,200	− 1,000
	18			+ 350				+ 350					
Bal.		59,600	+ 5,000	+ 1,150	+ 2,530	+ 13,000	=	11,080	+	65,000		+ 6,200	− 1,000
	20	− 2,530						− 2,530					
Bal.		57,070	+ 5,000	+ 1,150	+ 2,530	+ 13,000	=	8,550	+	65,000		+ 6,200	− 1,000
	24		+ 900									+ 900	
Bal.		57,070	+ 5,900	+ 1,150	+ 2,530	+ 13,000	=	8,550	+	65,000		+ 7,100	− 1,000
	28	+ 5,000	− 5,000										
Bal.		62,070	+ 900	+ 1,150	+ 2,530	+ 13,000	=	8,550	+	65,000		+ 7,100	− 1,000
	29	− 1,400											− 1,400
Bal.		60,670	+ 900	+ 1,150	+ 2,530	+ 13,000	=	8,550	+	65,000		+ 7,100	− 2,400
	30	− 540											− 540
Bal.		60,130	+ 900	+ 1,150	+ 2,530	+ 13,000	=	8,550	+	65,000		+ 7,100	− 2,940
	31	− 950									− $950		
Bal.		$59,180	+ $ 900	+ $1,150	+ $2,530	+ $13,000	=	$8,550	+	$65,000	− $950	+ $7,100	− $2,940

Problem 1-9A *(Continued)*

Part 2

Sony Electric
Income Statement
For Month Ended December 31

Revenues		
Electrical services revenue		$7,100
Expenses		
Rent expense	$1,000	
Salaries expense	1,400	
Utilities expense	540	
Total expenses		2,940
Net income		$4,160

Sony Electric
Statement of Retained Earnings
For Month Ended December 31

Retained earnings, December 1	$ 0
Add: Net income	4,160
	4,160
Less: Dividends......................................	950
Retained earnings, December 31	$ 3,210

Sony Electric
Balance Sheet
December 31

Assets		**Liabilities**	
Cash..............................	$59,180	Accounts payable..................	$ 8,550
Accounts receivable	900	Total liabilities	8,550
Supplies	1,150	**Equity**	
Office equipment	2,530	Common stock	65,000
Electrical equipment	13,000	Retained earnings	3,210
		Total equity	68,210
Total assets..................	$76,760	Total liabilities and equity	$76,760

Problem 1-9A *(Concluded)*

Part 3

Sony Electric Statement of Cash Flows For Month Ended December 31		
Cash flows from operating activities		
Cash received from customers[1]	$ 6,200	
Cash paid for rent	(1,000)	
Cash paid for supplies	(800)	
Cash paid for utilities	(540)	
Cash paid to employees	(1,400)	
Net cash provided by operating activities		$ 2,460
Cash flows from investing activities		
Cash paid for office equipment	(2,530)	
Cash paid for electrical equipment	(4,800)	
Net cash used by investing activities		(7,330)
Cash flows from financing activities		
Cash investment from shareholder	65,000	
Cash dividend to shareholder	(950)	
Net cash provided by financing activities		64,050
Net increase in cash		$59,180
Cash balance, Dec. 1		0
Cash balance, Dec. 31		$59,180

[1]$1,200 + $5,000 = $6,200

Part 4

If the December 1 investment had been $49,000 cash instead of $65,000 and the $16,000 difference was borrowed by the company from a bank, then:

(a) Total assets would remain the same.

(b) Total liabilities would be $16,000 greater.

(c) Total equity would be $16,000 lower (due to less owner investment).

Problem 1-10A (15 minutes)

1. **Return on assets is net income divided by the average total assets.**

   Kyzera's return: $65,000 / $250,000 = 0.26 or 26%.

2. **Return on assets seems satisfactory for the risk involved in the manufacturing, marketing, and selling of cellular telephones. Moreover, Kyzera's 26% return is more than twice as high as that of its competitors' 12% return.**

3. **We know that revenues less expenses equal net income. Taking the revenues and net income numbers for Kyzera we obtain:**

   $475,000 − Expenses = $65,000 → Expenses must equal $410,000.

4. **We know from the accounting equation that total financing (liabilities plus equity) must equal the total for assets (investing). Since average total assets are $250,000, we know the average total of liabilities plus equity (financing) must equal $250,000.**

Problem 1-11A (20 minutes)

1. **Return on assets equals net income divided by average total assets.**

   a. **Coca-Cola return: $8,634 / $76,448 = 0.113 or 11.3%.**

   b. **PepsiCo return: $6,462 / $70,518 = 0.092 or 9.2%.**

2. **Strictly on the amount of sales to consumers, Coca-Cola's sales of $46,542 are less than PepsiCo's $66,504.**

3. **Success in returning net income from the average amount invested is revealed by the return on assets. Part 1 showed that Coca-Cola's 11.3% return is better than PepsiCo's 9.2% return.**

PROBLEM SET B

Problem 1-1B (25 minutes)

	a.				b.		
	Balance Sheet			Income Statement	Statement of Cash Flows		
Transaction	Total Assets	Total Liab.	Total Equity	Net Income	Operating Activities	Investing Activities	Financing Activities
1 Owner invests $800 cash in business in exchange for stock	+800		+800				+800
2 Purchases $100 supplies on credit	+100	+100					
3 Buys equipment for $400 cash	+400 −400					−400	
4 Provide services for $900 cash	+900		+900	+900	+900		
5 Pays $400 cash for rent incurred	−400		−400	−400	−400		
6 Buys $200 of equipment on credit	+200	+200					
7 Pays $300 cash for wages incurred	−300		−300	−300	−300		
8 Pays $50 cash in dividends	−50		−50				−50
9 Provide $600 of services on credit	+600		+600	+600			
10 Collects $600 cash on accounts receivable	+600 −600				+600		

Problem 1-2B (40 minutes)

Part 1

Company V

(a) and (b)

Calculation of equity:	***Beginning***	***Ending***
Assets	$54,000	$59,000
Liabilities	(25,000)	(36,000)
Equity	$29,000	$23,000

(c) Calculation of net income for the year:

Equity, *beginning* of year	$29,000
Plus stock issuances	5,000
Plus net income	?
Less cash dividends	(5,500)
Equity, *end* of year	$23,000

Therefore, the net loss must have been $(5,500).

Part 2

Company W

(a) Calculation of equity at *beginning* of year:

Assets	$80,000
Liabilities	(60,000)
Equity	$20,000

(b) Calculation of equity at *end* of year:

Equity, *beginning* of year	$20,000
Plus stock issuances	20,000
Plus net income	40,000
Less cash dividends	(2,000)
Equity, *end* of year	$78,000

(c) Calculation of the amount of liabilities at *end* of year:

Assets	$100,000
Equity	(78,000)
Liabilities	$ 22,000

Problem 1-2B *(Continued)*

Part 3

Company X

First, compute the beginning and ending equity balances:

	Beginning	Ending
Assets	$141,500	$186,500
Liabilities	(68,500)	(65,800)
Equity	$ 73,000	$120,700

Then, find the amount of stock issuances during the year:

Equity, beginning of year	$ 73,000
Plus stock issuances	?
Plus net income	18,500
Less cash dividends	0
Equity, end of year	$120,700
Thus, the stock issuances must have been	$ 29,200

Part 4

Company Y

First, compute the beginning balance of equity:

	Beginning
Assets	$92,500
Liabilities	51,500
Equity	$41,000

Next, find the ending balance of equity as follows:

Equity, beginning of year	$41,000
Plus stock issuances	48,100
Plus net income	24,000
Less cash dividends	(20,000)
Equity, end of year	$93,100

Finally, find the ending amount of assets by adding the ending balance of equity to the ending balance of liabilities:

	Ending
Liabilities	$ 42,000
Equity	93,100
Assets	$135,100

Problem 1-2B *(Concluded)*

Part 5

Company Z

First, compute the balance of equity at end of year:

Assets	$170,000
Liabilities	(42,000)
Equity	$128,000

Next, find the beginning balance of equity as follows:

Equity, beginning of year	$?
Plus stock issuances	60,000
Plus net income	32,000
Less cash dividends	(8,000)
Equity, end of year	$128,000

Thus, the beginning balance of equity is $44,000.

Finally, find the beginning amount of liabilities by subtracting the beginning balance of equity from the beginning balance of assets:

	Beginning
Assets	$144,000
Equity	(44,000)
Liabilities	$100,000

Problem 1-3B (20 minutes)

Audi Company
Income Statement
For Current Year Ended December 31

Revenues		
Consulting revenue	$6,600	
Rental revenue	4,400	
Total revenues		$11,000
Expenses		
Salaries expense	4,000	
Rent expense	2,400	
Selling and administrative expenses	1,600	
Total expenses		8,000
Net income		$ 3,000

Problem 1-4B (20 minutes)

Audi Company
Statement of Retained Earnings
For Current Year Ended December 31

Retained earnings, Dec. 31, prior year		$ 900
Add:	Net income (from Problem 1-3B)	3,000
		3,900
Less:	Dividends	2,600
Retained earnings, Dec. 31, current year		$1,300

Problem 1-5B (20 minutes)

Audi Company
Balance Sheet
December 31

Assets		Liabilities	
Cash	$2,000	Accounts payable	$3,600
Accounts receivable	1,800	Total liabilities	3,600
Supplies	1,200	**Equity**	
Equipment	1,000	Common stock	1,100
		Retained earnings*	1,300
		Total equity	2,400
Total assets	$6,000	Total liabilities and equity	$6,000

* For computation of this amount see Problem 1-4B.

Problem 1-6B (15 minutes)

Banji Company
Statement of Cash Flows
For Current Year Ended December 31

Cash used by operating activities	$(3,000)
Cash from investing activities	1,600
Cash from financing activities	1,800
Net increase in cash	400
Cash, December 31, prior year	1,300
Cash, December 31, current year	$ 1,700

Problem 1-7B (60 minutes) *Part 1*

	Assets					=	Liabilities	+	Equity						
Date	Cash	+	Accounts Receivable	+	Equipment	=	Accounts Payable	+	Common Stock	−	Dividends	+	Revenues	−	Expenses
June 1	+$130,000					=		+	$130,000						
2	− 6,000					=								−	$6,000 Rent
4				+	$2,400	=	+ $2,400								
6	− 1,150					=								−	1,150 Advertising
8	+ 850					=						+	$ 850		
14		+	$7,500			=						+	7,500		
16	− 800					=								−	800 Salary
20	+ 7,500	−	7,500			=									
21		+	7,900			=						+	7,900		
24		+	675			=						+	675		
25	+ 7,900	−	7,900			=									
26	− 2,400					=	− 2,400								
28	− 800					=								−	800 Salary
29	− 4,000					=				−	$4,000				
30	− 150					=								−	150 Telephone
30	− 890					=								−	890 Utilities
	$130,060	+	$ 675	+	$2,400	=	$ 0	+	$130,000	−	$4,000	+	$16,925	−	$9,790

Problem 1-7B *(Continued)*
Part 2

Niko's Maintenance Co.
Income Statement
For Month Ended June 30

Revenues		
Maintenance services revenue		$16,925
Expenses		
Rent expense	$6,000	
Salaries expense	1,600	
Advertising expense	1,150	
Utilities expense	890	
Telephone expense	150	
Total expenses		9,790
Net income		$ 7,135

Niko's Maintenance Co.
Statement of Retained Earnings
For Month Ended June 30

Retained earnings, June 1	$ 0
Add: Net income	7,135
	7,135
Less: Dividends	4,000
Retained earnings, June 30	$ 3,135

Niko's Maintenance Co.
Balance Sheet
June 30

Assets		**Liabilities**	
Cash	$130,060	Accounts payable	$ 0
Accounts receivable ..	675	Total liabilities	0
Equipment	2,400	**Equity**	
		Common stock	130,000
		Retained earnings	3,135
		Total equity	133,135
Total assets	$133,135	Total liabilities and equity ...	$133,135

Problem 1-7B *(Concluded)*

Part 3

Niko's Maintenance Co. Statement of Cash Flows For Month Ended June 30		
Cash flows from operating activities		
Cash received from customers[1]	$ 16,250	
Cash paid for rent	(6,000)	
Cash paid for advertising	(1,150)	
Cash paid for telephone	(150)	
Cash paid for utilities	(890)	
Cash paid to employees	(1,600)	
Net cash provided by operating activities		$ 6,460
Cash flows from investing activities		
Cash paid for equipment	(2,400)	
Net cash used by investing activities		(2,400)
Cash flows from financing activities		
Cash investments from shareholder	130,000	
Cash dividends to shareholder	(4,000)	
Net cash provided by financing activities		126,000
Net increase in cash		$130,060
Cash balance, June 1		0
Cash balance, June 30		$130,060

[1]$850 + $7,500 + $7,900 = $16,250

Problem 1-8B (60 minutes) *Part 1*

	Assets									=	Liabilities	+	Equity						
	Cash	+	Accounts Receivable	+	Supplies	+	Equipment	+	Building	=	Accounts Payable	+	Common Stock	−	Dividends	+	Revenues	−	Expenses
a.	+ $90,000					+	$10,000					+	$100,000						
b.	− 50,000							+	$50,000										
Bal.	40,000					+	10,000	+	50,000	=		+	100,000						
c.	− 25,000					+	25,000												
Bal.	15,000					+	35,000	+	50,000	=		+	100,000						
d.				+	$1,200	+	1,700				+ $2,900								
Bal.	15,000				1,200	+	36,700	+	50,000	=	2,900	+	100,000						
e.	− 750																	−	$ 750
Bal.	14,250			+	1,200	+	36,700	+	50,000	=	2,900	+	100,000					−	750
f.		+	$2,800													+	$2,800		
Bal.	14,250	+	2,800	+	1,200	+	36,700	+	50,000	=	2,900	+	100,000			+	2,800	−	750
g.	+ 4,000															+	4,000		
Bal.	18,250	+	2,800	+	1,200	+	36,700	+	50,000	=	2,900	+	100,000			+	6,800	−	750
h.	− 3,000													−	$3,000				
Bal.	15,250	+	2,800	+	1,200	+	36,700	+	50,000	=	2,900	+	100,000	−	3,000	+	6,800	−	750
i.	+ 1,800	−	1,800																
Bal.	17,050	+	1,000	+	1,200	+	36,700	+	50,000	=	2,900	+	100,000	−	3,000	+	6,800	−	750
j.	− 700										− 700								
Bal.	16,350	+	1,000	+	1,200	+	36,700	+	50,000	=	2,200	+	100,000	−	3,000	+	6,800	−	750
k.	− 2,500																	−	2,500
Bal.	$ 13,850	+	$1,000	+	$1,200	+	$36,700	+	$50,000	=	$2,200	+	$100,000	−	$3,000	+	$6,800	−	$3,250

Problem 1-8B *(Concluded)*

Part 2

The company's net income = \$6,800 − \$3,250 = <u>\$3,550</u>

Problem 1-9B (60 minutes) *Part 1*

		Assets					=	Liabilities +	Equity			
Date		**Cash**	**+ Accounts Receivable**	**+ Supplies**	**+ Office Equipment**	**+ Roofing Equipment**	**=**	**Accounts Payable**	**+ Common Stock**	**− Dividends**	**+ Revenues**	**− Expenses**
July	1	+ $80,000					=		+ $80,000			
	2	− 700										− $700
Bal.		79,300					=		80,000			− 700
	3	− 1,000				+ $5,000	=	+ $4,000				
Bal.		78,300				+ 5,000	=	4,000	+ 80,000			− 700
	6	− 600		+ $ 600								
Bal.		77,700		+ 600		+ 5,000	=	4,000	+ 80,000			− 700
	8	+ 7,600									+ $7,600	
Bal.		85,300		+ 600		+ 5,000	=	4,000	+ 80,000		+ 7,600	− 700
	10				+ $2,300			+ 2,300				
Bal.		85,300		+ 600	+ 2,300	+ 5,000	=	6,300	+ 80,000		+ 7,600	− 700
	15		+ $8,200								+ 8,200	
Bal.		85,300	+ 8,200	+ 600	+ 2,300	+ 5,000	=	6,300	+ 80,000		+ 15,800	− 700
	17			+ 3,100				+ 3,100				
Bal.		85,300	+ 8,200	+ 3,700	+ 2,300	+ 5,000	=	9,400	+ 80,000		+ 15,800	− 700
	23	− 2,300						− 2,300				
Bal.		83,000	+ 8,200	+ 3,700	+ 2,300	+ 5,000	=	7,100	+ 80,000		+ 15,800	− 700
	25		+ 5,000								+ 5,000	
Bal.		83,000	+ 13,200	+ 3,700	+ 2,300	+ 5,000	=	7,100	+ 80,000		+ 20,800	− 700
	28	+ 8,200	− 8,200									
Bal.		91,200	+ 5,000	+ 3,700	+ 2,300	+ 5,000	=	7,100	+ 80,000		+ 20,800	− 700
	30	− 1,560										− 1,560
Bal.		89,640	+ 5,000	+ 3,700	+ 2,300	+ 5,000	=	7,100	+ 80,000		+ 20,800	− 2,260
	31	− 295										− 295
Bal.		89,345	+ 5,000	+ 3,700	+ 2,300	+ 5,000	=	7,100	+ 80,000		+ 20,800	− 2,555
	31	− 1,800								− $1,800		
Bal.		$87,545	+ $ 5,000	+ $3,700	+ $2,300	+ $5,000	=	$7,100	+ $80,000	− $1,800	+ $20,800	− $2,555

Problem 1-9B *(Continued)*
Part 2

Rivera Roofing Company
Income Statement
For Month Ended July 31

Revenues		
Roofing services revenue		$20,800
Expenses		
Rent expense	$ 700	
Salaries expense	1,560	
Utilities expense	295	
Total expenses		2,555
Net income		$18,245

Rivera Roofing Company
Statement of Retained Earnings
For Month Ended July 31

Retained earnings, July 1	$ 0
Add: Net income	18,245
	18,245
Less: Dividends	1,800
Retained earnings, July 31	$16,445

Rivera Roofing Company
Balance Sheet
July 31

Assets		*Liabilities*	
Cash	$ 87,545	Accounts payable	$ 7,100
Accounts receivable	5,000	Total liabilities	7,100
Supplies	3,700	*Equity*	
Office equipment	2,300	Common stock	80,000
Roofing equipment	5,000	Retained earnings	16,445
		Total equity	96,445
Total assets	$103,545	Total liabilities & equity	$103,545

Problem 1-9B *(Concluded)*

Part 3

Rivera Roofing Company
Statement of Cash Flows
For Month Ended July 31

Cash flows from operating activities		
Cash received from customers[1]	$15,800	
Cash paid for rent	(700)	
Cash paid for supplies	(600)	
Cash paid for utilities	(295)	
Cash paid to employees	(1,560)	
Net cash provided by operating activities		$12,645
Cash flows from investing activities		
Cash paid for roofing equipment	(1,000)	
Cash paid for office equipment	(2,300)	
Net cash used by investing activities		(3,300)
Cash flows from financing activities		
Cash investments from shareholder	80,000	
Cash dividends to shareholder	(1,800)	
Net cash provided by financing activities		78,200
Net increase in cash		$87,545
Cash balance, July 1		0
Cash balance, July 31		$87,545

[1]$7,600 + $8,200 = $15,800

Part 4

If the $5,000 purchase on July 3 had been acquired through an additional owner investment of cash, then:

(a) Total assets would be greater by $1,000.

(b) Total liabilities would be $4,000 less.

(c) Total equity would be $5,000 greater.

Problem 1-10B (15 minutes)

1. **Return on assets is net income divided by average total assets (the average amount invested). For Ski-Doo Company this return is computed as:**

   $201,000 ⁄ $3,000,000 = 0.067 or 6.7%.

2. **Return on assets does not seem satisfactory for the risk involved in the manufacturing, marketing, and selling of snowmobile equipment. Ski-Doo Company's 6.7% return is less than the 9.5% return earned by its competitors.**

3. **We know that revenues less expenses equal net income. Taking the revenues and net income numbers for Ski-Doo Company we obtain:**

   $1,400,000 − Expenses = $201,000 → Expenses must equal $1,199,000.

4. **We know from the accounting equation that the total of liabilities plus equity (financing) must equal the total for assets (investing). Since average total assets are $3,000,000, we know the average total of liabilities plus equity (financing) must equal $3,000,000.**

Problem 1-11B (15 minutes)

1. **Return on assets equals net income divided by average total assets.**

   a. AT&T return: $4,184 / $269,868 = 0.016 or 1.6%

   b. Verizon return: $10,198 / $225,233 = 0.045 or 4.5%

2. **On strictly the amount of sales to consumers, AT&T's sales of $126,723 are greater than Verizon's sales of $110,875.**

3. **Success in returning net income from the amount invested is revealed by the return on assets ratio. Part 1 showed that AT&T has a much lower return on assets of 1.6% versus Verizon with a 4.5% return on assets.**

4. **The reported figures suggest Verizon is more successful in generating income based on assets. Based on this information alone, we would be better advised to invest in Verizon than AT&T.**

   Nevertheless, we would look for additional information in financial statements and other sources for further guidance. For example, if AT&T could reduce its expenses, or reduce its assets without reducing income, it could potentially be a more appealing investment given its greater market share; or, Verizon could do the same and make it appear more appealing as an investment. We would also look for consumer trends, market expansion, competition, and product development and promotion plans.

Serial Problem — SP 1 (30 minutes) *Business Solutions*

		Assets									=	Liabilities	+	Equity						
Date		Cash	+	Accounts Receivable	+	Computer Supplies	+	Computer System	+	Office Equipment	=	Accounts Payable	+	Common Stock	−	Dividends	+	Revenues	−	Expenses
Oct.	1	+$45,000						$20,000	+	$8,000			+	$73,000						
	3				+	$1,420						+ $1,420								
Bal.		45,000			+	1,420	+	20,000	+	8,000	=	1,420	+	73,000						
	6		+	$4,800													+	$ 4,800		
Bal.		45,000	+	4,800	+	1,420	+	20,000	+	8,000	=	1,420	+	73,000			+	4,800		
	8	− 1,420										− 1,420								
Bal.		43,580	+	4,800	+	1,420	+	20,000	+	8,000	=	0	+	73,000			+	4,800		
	12		+	1,400													+	1,400		
Bal.		43,580	+	6,200	+	1,420	+	20,000	+	8,000	=	0	+	73,000			+	6,200		
	15	+ 4,800	−	4,800																
Bal.		48,380	+	1,400	+	1,420	+	20,000	+	8,000	=	0	+	73,000			+	6,200		
	17	− 805																	−	$ 805
Bal.		47,575	+	1,400	+	1,420	+	20,000	+	8,000	=	0	+	73,000			+	6,200	−	805
	20	− 1,728																	−	1,728
Bal.		45,847	+	1,400	+	1,420	+	20,000	+	8,000	=	0	+	73,000			+	6,200	−	2,533
	22	+ 1,400	−	1,400																
Bal.		47,247	+	0	+	1,420	+	20,000	+	8,000	=	0	+	73,000			+	6,200	−	2,533
	28		+	5,208													+	5,208		
Bal.		47,247	+	5,208	+	1,420	+	20,000	+	8,000	=	0	+	73,000			+	11,408	−	2,533
	31	− 875																	−	875
Bal.		46,372	+	5,208	+	1,420	+	20,000	+	8,000	=	0	+	73,000			+	11,408	−	3,408
	31	− 3,600													−	$3,600				
Bal.		$42,772	+	$5,208	+	$1,420	+	$20,000	+	$8,000	=	$ 0	+	$73,000	−	$3,600	+	$11,408	−	$3,408

Company Analysis — AA 1-1

$ millions

1. **$352,755** **($ millions)**

   ***Explanation*: An organization's total assets always equal total liabilities plus total equity. Therefore, Apple's liabilities plus equity equal Apple's total assets.**

2. **28.4%**

   ***Explanation*: Return on assets is net income divided by the average total assets invested. For Apple this return is:**
   $99,803 / [($352,755 + $351,002)/2] = 0.284 or 28.4%.

3. **$294,525**

   ***Explanation*: We know that net income equals total revenues less total expenses. For Apple, we are told net income is $99,803 and revenues are $394,328. Thus, Apple's total expenses are computed as: $394,328 − Expenses = $99,803. Total expenses must equal $294,525.**

4. **Better**

   ***Explanation*: Apple's return on assets of 28.4% is good given that it exceeds its competitors' return on assets of 10% for this period.**

Comparative Analysis — AA 1-2

$ millions	Apple	Google
1. Total Assets = Liabilities + Equity	$352,755	$365,264
2. Return on assets	$99,803 / [($352,755 + $351,002)/2]	$59,972 / [($365,264 + $359,268)/2]
	28.4%	16.6%
3. Revenues−Expenses = Net income	$394,328 − Expenses = $99,803	$282,836 − Expenses = $59,972
→ Expenses =	Expenses = $294,525	Expenses = $222,864

4.

(a) Better

Explanation: Apple's return is good given the moderate risk Apple confronts and vis-à-vis the 10% return of its competitors.

(b) Better

Explanation: Google's return is good given the moderate risk Google confronts and vis-à-vis the 10% return of its competitors.

5. Apple

Explanation: Apple's return on assets is superior to Google's return on assets. Therefore, based only on return on assets, we would invest in Apple.

Extended Analysis — AA 1-3 (20 minutes)

1.

(a) 12.7%
***Explanation*: Return on assets is net income divided by the average total assets invested. For Samsung this return is ($ millions): $43,104 ⁄ $338,863 = 0.127 or 12.7%.**

(b) 9.4%
***Explanation*: Return on assets is net income divided by the average total assets invested. For Samsung this return is ($ millions): $30,908 ⁄ $330,508 = 0.094 or 9.4%.**

2. Favorable
***Explanation*: Samsung's return on assets increased in the current year versus the prior year.**

3.

(a) Worse
***Explanation*: Samsung's return on assets of is worse than Apple's return on assets. Apple's return on assets is computed: $99,803 ⁄ $351,879 = 0.284 or 28.4%.**

(b) Worse
***Explanation*: Samsung's return on assets of is worse than Google's return on assets. Google's return on assets is computed: $59,972 ⁄ $362,266 = 0.166 or 16.6%.**

DISCUSSION QUESTIONS

1. The purpose of accounting is to provide decision makers with relevant and reliable information to help them make better decisions. Examples include information for people making investments, loans, and business plans.
2. Technology reduces the time, effort, and cost of recordkeeping. There is still a demand for people who can design accounting systems, supervise their operation, analyze complex transactions, and interpret reports. Demand also exists for people who can effectively use computers to prepare and analyze accounting reports. Technology will never substitute for qualified people with abilities to prepare, use, analyze, and interpret accounting information.
3. External users and their uses of accounting information include: (a) lenders, to measure the risk and return of loans; (b) shareholders, to assess whether to buy, sell, or hold their shares; (c) employees and labor unions, to judge the fairness of wages and assess future employment opportunities; and (d) regulators, to determine whether the organization is complying with regulations. Other external users are voters, legislators, government officials, contributors to nonprofits, suppliers, and customers.
4. Business owners and managers use accounting information to help answer questions such as: What resources does an organization own? What debts are owed? How much income is earned? Are expenses reasonable for the level of sales? Are customers' accounts being promptly collected?
5. Service businesses include: Standard and Poor's, Dun & Bradstreet, Merrill Lynch, Southwest Airlines, CitiCorp, Humana, Charles Schwab, and Prudential. Businesses offering products include Nike, Reebok, Gap, Apple, Ford Motor Co., Philip Morris, Coca-Cola, Best Buy, and WalMart.
6. The internal role of accounting is to serve the organization's internal operating functions. It does this by providing useful information for internal users in completing their tasks more effectively and efficiently. By providing this information, accounting helps the organization reach its overall goals.
7. Accounting professionals offer many services including auditing, management advice, tax planning, business valuation, and money management.
8. Marketing managers are likely interested in information such as sales volume, advertising costs, promotion costs, salaries of sales personnel, and sales commissions.
9. Accounting is described as a service activity because it serves decision makers by providing information to help them make better business decisions.
10. Some accounting-related professions include consultant, financial analyst, underwriter, financial planner, appraiser, FBI investigator, market researcher, and system designer.
11. Ethics rules require that auditors avoid auditing clients in which they have a direct investment, or if the auditor's fee is dependent on the figures in the client's reports. This will help prevent others from doubting the quality of the auditor's report.

12. In addition to preparing tax returns, tax accountants help companies and individuals plan future transactions to minimize the amount of tax to be paid. They are also actively involved in estate planning and in helping set up organizations. Some tax accountants work for regulatory agencies such as the IRS or the various state departments of revenue. These tax accountants help to enforce tax laws.

13. The objectivity concept means that financial statement information is supported by independent, unbiased evidence other than someone's opinion or imagination.

14. This treatment is justified by both the measurement (cost) principle and the going-concern assumption.

15. The revenue recognition principle provides guidance for managers and auditors so they know when to recognize revenue. If revenue is recognized too early, the business looks more profitable than it is. On the other hand, if revenue is recognized too late the business looks less profitable than it is. This principle demands that revenue be recognized when it is both earned (when service or product is provided) and can be measured reliably. The amount of revenue should equal the value of the assets received or expected to be received from the business's operating activities covering a specific time period.

16. Business organizations can be organized as a sole proprietorship, partnership, corporation, or LLC. These forms have implications for legal entity and liability, business life, taxation, and number of owners as follows.

	Proprietorship	***Partnership***	***Corporation***	***LLC***
Business entity	**yes**	**yes**	**yes**	**yes**
Legal entity	**no**	**no**	**yes**	**yes**
Limited liability	**no**	**no**	**yes**	**yes**
Unlimited life	**no**	**no**	**yes**	**yes**
Business Taxed	**no**	**no**	**yes**	**no**
One owner allowed	**yes**	**no**	**yes**	**yes**

17. (a) Assets are resources owned or controlled by a company that are expected to yield future benefits. (b) Liabilities are creditors' claims on assets that reflect obligations to provide assets, products, or services to others. (c) Equity is the owner's claim on assets and is equal to assets minus liabilities. (d) Net assets refer to equity.

18. Equity is increased by investments (stock issuances) from the owner and by net income (which is the excess of revenues over expenses). It is decreased by dividends and by a net loss (which is the excess of expenses over revenues).

19. Accounting principles consist of (a) *general* and (b) *specific* principles. General principles are the basic assumptions, concepts, and guidelines for preparing financial statements. They stem from long-used accounting practices. Specific principles are detailed rules used in reporting on business transactions and events. They usually arise from the rulings of authoritative and regulatory groups such as the Financial Accounting Standards Board or the Securities and Exchange Commission.

20. Revenue (or sales) is the amount received from selling products and services.

21. Net income (also called income, profit, or earnings) equals revenues minus expenses (if revenues exceed expenses). Net income increases equity. If expenses exceed revenues, the company has a net loss. Net loss decreases equity.

22. The four basic financial statements are: income statement, statement of retained earnings, balance sheet, and statement of cash flows.

23. An income statement reports a company's revenues and expenses along with the resulting net income or loss over a period of time.

24. Rent expense, utilities expense, administrative expenses, advertising and promotion expenses, maintenance expense, and salaries and wages expenses are some examples of business expenses.

25. The statement of retained earnings explains the changes in retained earnings from net income or loss, and from any owner contributions (stock issuances) and dividends over a period of time.

26. The balance sheet describes a company's financial position (types and amounts of assets, liabilities, and equity) at a point in time.

27. The statement of cash flows reports on the cash inflows and outflows from a company's operating, investing, and financing activities.

28. Return on assets, also called return on investment, is a profitability measure that is useful in evaluating management, analyzing and forecasting profits, and planning activities. It is computed as net income divided by the average total assets. For example, if we have an average annual balance of $100 in a bank account and it earns interest of $5 for the year, then our return on assets is $5 / $100 or 5%. The return on assets is a popular measure for analysis because it allows us to compare companies of different sizes and in different industries.

Ethics Challenge — BTN 1-1

1. There are several parties affected. They include the users of financial statements such as shareholders, lenders, investors, analysts, suppliers, unions, regulators, and others. They also include the accounting firm, which can be sued if deemed a party to misleading statements.
2. A major factor in the value of an auditor's report is the auditor's independence. If an auditor accepted a fee that increases when the client's reported profit increases, the auditor is (or at least is perceived to be) interested in higher profits for the client. This compromises the auditor's independence.
3. Thorne should not accept this fee arrangement. To avoid compromising the auditor's independence, Thorne should reject it. (Further, the AICPA Code of Professional Conduct forbids auditors from accepting contingent fees that depend on amounts reported in a client's financial statements. This AICPA Code has been codified into law in most states and, therefore, this action would also be an illegal act for a CPA.)
4. Ethical considerations guiding this decision include the potential harm to affected parties by allowing such a fee arrangement to exist. The unacceptable nature of such a fee arrangement guards the profession against unethical actions that could undermine its real and perceived value to society.

Communicating in Practice — BTN 1-2

1. Deciding whether Apple is a good loan risk can be difficult because the planned expansion is risky if customer demand does not meet expectations. As a loan officer in this situation you would want information on the company's (1) projections of expected cash receipts and cash payments (best provided on a monthly basis); (2) assessment of the market, the company's plans, and a strategy to achieve success; (3) cash contributions that the owners will make to the business; and (4) a listing of tangible assets (including their price and useful life) necessary to carry out the company's plans.
2. How the company is organized is important to a loan officer. If it is a standard partnership (which it was, and not a LLC), the personal assets of the owners are available to repay the loan. In this case, a loan officer will want information about the owners' financial condition. If it is a corporation, the amounts invested in the business by each shareholder are especially important. The loan officer can also require owners or shareholders to personally guarantee the loan for additional protection for the bank. Careful execution of these steps should minimize the bank's risk of taking on a bad loan.

Teamwork in Action — BTN 1-3

Suggestions for forming support/learning teams are in the Instructor's Resource Manual (IRM). The IRM provides the master of a Student Data Form that can be duplicated and used to gather information as a basis for forming these teams. The IRM also includes other administrative materials helpful in creating an active learning environment for studying accounting.

[*Note: Instructors often have students use the copy function in e-mail to keep them advised of meeting times and other important team activities. This also encourages students to use and explore additional features of e-mail.*]

Entrepreneurial Decision — BTN 1-4

1.

(a) AccountApp's total amount of liabilities and equity consists of the bank loan and the owner investments. Specifically:

Total assets	=	Bank Loan	+	Owner investment
	=	Liabilities	+	Equity
$750,000	=	$500,000	+	$250,000

(b) AccountApp's total amount of assets equals its total amount of liabilities plus equity, which is $750,000.

2. Return on assets = $80,250 / $750,000 = 0.107 = 10.7%

AccountApp's 10.7% return slightly exceeds its competitors' average return of 10%. Assuming the company can continue to earn 10.7% or more, the owners should consider further investment in the new company.

CHAPTER 1
INTRODUCING FINANCIAL STATEMENTS

Related Assignment Materials

Student Learning Objectives	*Discussion Questions*	*Quick Studies**	*Exercises**	*Problems**	*AA, BTN, DA*
Conceptual objectives:					
C1. Explain the importance of accounting and identify its users.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12	1-1, 1-2	1-1, 1-2, 1-3, 1-4, 1-6		BTN 1-2, BTN 1-3
C2. Describe the importance of ethics and GAAP.	11, 13, 14, 15, 19	1-3, 1-4, 1-5, 1-6	1-4, 1-5, 1-6, 1-7, 1-8		BTN 1-1, BTN 1-2, BTN 1-6
Analytical objectives:					
A1. Define and interpret the accounting equation and each of its components.	16, 17, 18, 20, 24	**1-7, 1-8**	**1-9, 1-10** 1-11	1-2, 1-10	AA 1-1, AA 1-2, AA 1-3, BTN 1-4, DA 1-1, DA 1-2, DA 1-3
A2. Compute and interpret return on assets.	28	1-20, 1-21	**1-25**	1-10, 1-11	AA 1-1, AA 1-2, AA 1-3, BTN 1-4
				1-12	
Procedural objectives:					
P1. Analyze business transactions using the accounting equation.	18	1-9, **1-10, 1-11**	1-12, 1-13, 1-14, 1-15	1-1, 1-7, 1-8, 1-9, SP	ESG 1-1
P2. Identify and prepare basic financial statements and explain how they interrelate.	21, 22, 23, 24, 25, 26, 27	1-12, 1-13, 1-14, **1-15, 1-16, 1-17,** 1-18, 1-19	1-16, 1-17 **1-18, 1-19, 1-20, 1-21,** 1-22, 1-23, 1-24	1-3, 1-4, 1-5, 1-6, 1-7, 1-8, 1-9	DA 1-2, DA 1-3

See additional information on next page that pertains to these quick studies, exercises, and problems.
SP refers to the Serial Problem
AA refers to Accounting Analysis
BTN refers to Beyond the Numbers
DA refers to Tableau Dashboard Activities
ESG Reporting and Analysis
Questions with Guided Example videos

Additional Information on Related Assignment Material available in Connect®

Available on the instructor's course-specific website, Connect repeats all numerical Quick Studies, all Exercises, and Problem Set A. Connect also provides algorithmic versions for Quick Study, Exercises, and Problems. It allows instructors to monitor, promote, and assess student learning. It can be used in practice, homework, or exam mode.

We have a variety of tools available to make updating your course as painless as possible. The Connect Pre-Built Course Package includes three tools to get you started with Connect for the new edition. You can use the pre-built course as is or customize it to meet your needs.

Connect Pre-Built Course Package (formerly called Library course)

- Connect course: Pre-built courses include reading, homework, and assessment for each chapter. Pre-built courses are designed and created by a digital faculty consultant that uses the product in the course.
- Key: a spreadsheet that lists all the assignments (organized by type and learning objective) and policy settings to make it quick and easy to see what is included in the pre-built course.
- Sample syllabi: customizable document that highlights the assignments and policy settings in the pre-built course.

Connect Orientation Videos:

Provide an introduction for your students for using Connect to complete assignments to help get your students up and running in the system. There are videos covering:

- End-of-Chapter Assignments
- General Ledger
- Concept Overview Videos
- Excel Assignments
- SmartBook
- Data Analytics and Visualization Assignments

General Ledger Problems:

Assignable within Connect, General Ledger (GL) problems offer students the ability to see how transactions post from the general journal all the way through the financial statements. Critical thinking and analysis components are added to each GL problem to ensure understanding of the entire process. GL problems are auto-graded and provide instant feedback to the student.

Summary of Excel Resources:

Note: The following assignments are located in Connect within the Question Bank, under the Excel Resources bank located above Chapter 1.

Integrated Excel Chapter Exercises: These assignments are integrated with Excel Online within Connect. Separate Excel software is not needed by the student. These auto-graded static and algo assignments are based on Quick Studies and Exercises featured in each chapter. These assignments include cell messaging to guide students, as well as optional Guided Example and Excel Formula Hint Videos which can be activated by the Instructor Policy setting. These assignments will directly feed your gradebook.

Applying Integrated Excel: These assignments are based on the original Applying Excel assignments and have been integrated with Excel Online within Connect. Separate Excel software is not needed by the student. These auto-graded static and algo assignments are based on training students how to apply Excel formulas to complete many accounting calculations. These assignments include cell messaging to guide students, as well as optional Guided Example and Excel Formula Hint Videos which can be activated by the Instructor Policy setting. Some assignments are identified as Projects, which allow students to work with datasets. The auto-graded

Applying Integrated Excel Project assignments include optional Hint Videos recorded by author John Wild which can be activated by the Instructor Policy setting. Both the Applying Integrated Excel and Applying Integrated Excel Project assignments will directly feed your gradebook.

Accounting Integrated Excel Problems (formerly Excel Sims): These assignments are based on the original Excel Sims and have integrated with Excel Online within Connect. Separate Excel software is not needed by the student. These auto-graded static assignments (not available in Algo) are based on training students how to use Excel formulas to complete accounting statements. These assignments include cell messaging to guide students but do not contain videos. These assignments will directly feed your gradebook.

Applying Excel (Original version. Excel required): These original version assignments require that students have their own copy of Excel software. These assignments are based on training students how to apply Excel formulas to complete many accounting calculations. Videos are included. The auto-graded portion of the assignments utilize multiple choice questions only. However, the Excel file portion of the assignment must be submitted to the instructor as a file attachment, will display a grade, but the instructor must manually enter these grades into the gradebook.

SmartBook:

Available within Connect, SmartBook makes study time as productive and efficient as possible. SmartBook identifies and closes knowledge gaps through a continually adapting reading experience that provides personalized learning resources at the precise moment of need. This ensures that every minute spent with SmartBook is returned to the student as the most value-added minute possible. The result? More confidence, better grades, and greater success.

Chapter Videos:

A growing number of students now learn accounting online. To aid instructors and students completing their accounting courses in person, fully online, and in hybrid formats, we offer a large set of learning resource videos to ensure student success. There are also instructor resources to add a personal touch to these learning aids.

Summary of Data Analytics and Visualization Resources:

Note: The following assignments are located in Connect within the Question Bank, under the **Data Analytics and Visualizations** bank located above Chapter 1. Please refer to the Connect Asset Map for a listing of assignments.

Tableau Dashboard Activities: For our Tableau Dashboard Activities (TDAs) the Tableau software does not need to be installed by the student. The Tableau dashboards in these assignments are served up in Connect. These are three levels of TDAs available for assignment in each chapter of the text. There are TDA, at the quick study, exercise, and mini-project levels. The assignments utilize live Tableau dashboards, are auto graded, and are available in either static or algorithmic formats. Students simply navigate and analyze the Tableau dashboard visualizations to answer related accounting questions. The student results of these assignments will directly feed your gradebook and are an easy way to incorporate Data Analytics into your introductory accounting course.

Applying Tableau: For these assignments students will need to download and install the Tableau software. The Tableau software is free with a student educational license and is compatible with both Windows and MAC. These applying tableau assignments include step-by-step instructions as well as video walking the student through creating a data visualization in Tableau. No prior experience in tableau is needed by the student. After creating the data visualization in Tableau, students are directed into Connect to answer questions based on the analysis of their Tableau visualization. Applying Tableau assignments are only available in a static format. The question students answer are auto-graded and the results will directly feed your gradebook.

Need-to-Know:
Need-to-Know demonstrations are located at key junctures in each chapter. These demonstrations pose questions about the material just presented—content that students "need to know" to learn accounting. Accompanying solutions walk students through key procedures and analysis necessary to be successful with homework and test materials. Need-to-Know demonstrations are supplemented with narrated, animated, step-by-step walk-through videos led by an instructor and available via Connect. Select chapters also include Comprehensive Need-to-Knows that draw on materials from the entire chapter.

LO	Need-to-Know	Title
C1	1-1	Accounting Users
C2	1-2	Accounting Guidance
A1	1-3	Accounting Equation
P1	1-4	Transaction Analysis
P2	1-5	Financial Statements
COMPREHENSIVE	1-6	Transaction Analysis, Statement Preparation, and Return on Assets
		Req. 1
		Req 2-6

Concept Overview Videos:
The Concept Overview Videos (COVs) provide engaging narratives of all chapter learning objectives in an assignable and interactive online format. The concept overview videos replace the previous edition interactive presentations. They follow the structure of the text and are organized to match the specific learning objectives within each chapter. The concept overview videos provide additional explanation and enhancement of material from the chapter, allowing students to learn, study, and practice with instant feedback, at their own pace. Each video is approximately 1-2 minutes and is paired with a Knowledge Check question.

LO	Title
C1	Explain the importance of accounting and identify its users.
	Importance of Accounting
	Definition of Accounting
	Accounting Versus Recordkeeping
	Information Users
	Opportunities in Accounting
	Public versus Private Accounting Opportunities
	Opportunities for Accounting Professionals
	Data Analytics and Data Visualization
C2	Describe the importance of ethics and GAAP.
	Ethical Decision Making
	Fraud Triangle
	Generally Accepted Accounting Principles
	International Standards
	Principles of Accounting
	Assumptions and Constraint
A1	Define and interpret the accounting equation and each of its components.
	Accounting Equation
	The Expanded Accounting Equation
A2	Compute and interpret return on assets.
	Financial Statement Analysis
	Return on Assets

	Return on Assets Illustration
P1	Analyze business transactions using the accounting equation.
	Transaction Analysis
	Illustration
	Transaction Summary
P2	Identify and prepare basic financial statements and explain how they interrelate.
	Financial Statements
	Income Statement
	Statement of Retained Earnings
	Balance Sheet
	Statement of Cash Flows

Hints/Guided Examples:
The Guided Examples in Connect provide a narrated, animated, step-by-step walk-through of select quick studies, exercises, and general ledger problems similar to those assigned. These short presentations can be turned on or off by instructors and provide reinforcement when students need it most. Please note that they are labeled as "Hints" in Connect assignments. The animated PowerPoints without the video and audio functions for the Guided Examples are also available in the Connect Instructor Library and Exercise Presentations. **These are indicated in the Related Assignment Materials grid on page 1 in blue bold font.**

Synopsis of Chapter Revisions:

Enhanced section on Data Analytics and Data Visualization.
New coverage of Data Analytics types: Descriptive, Diagnostic, Predictive, Prescriptive, Cognitive.
New box on CPA Evolution.
New coverage of Environmental, Social, and Governance (ESG) Reporting.
Updated return on assets analysis using **Nike** and **Under Armour**.
Updated analysis assignments: Company Analysis, Comparative Analysis, and Extended Analysis.

Chapter Outline

I. **Importance of Accounting**—we live in the information age in which information, and its reliability, impacts the financial well-being of us all.

Accounting is an information and measurement system that identifies, records, and communicates an organization's business activities.

A. Users of Accounting Information – accounting is called the language of business because it communicates data the helps users make better decisions. People using accounting information are divided into two groups:

1. External Users—those *not* directly involved with running the company. They have limited access to the company's accounting information. Examples: shareholders (investors), lenders, external auditors, nonmanagerial and nonexecutive employees, labor unions, regulators, voters, legislators, government officials, customers, suppliers, etc.

   a. Financial Accounting—area of accounting aimed at serving external users by providing them with *general-purpose financial statements*.

2. Internal Users—those directly involved in managing and operating an organization. Internal users include research and development, purchasing, human resource, production, distribution, marketing, and service managers.

   a. Managerial Accounting—area of accounting that serves the decision-making needs of internal users.

   b. Internal Reports—are designed for the special needs of internal users.

B. Opportunities in Accounting—four broad areas of opportunities are financial, managerial, taxation, and accounting-related.

1. Private accounting, which are employees working for businesses, offers the most opportunities.
2. Public accounting offers the next largest number of opportunities. Opportunities include auditing and taxation.
3. Government (and not-for-profit) agencies, including business regulation and investigation of law violations, also offer opportunities.
4. Accounting specialists include certified public accountants, CPAs. Certifications include certified management accounting, CMA or CGMA, and certified internal auditors, CIA. Specialists include certified bookkeeper, CB, certified payroll professional, CPP, certified financial planner, CFP, certified fraud examiner, CFE, and certified forensic accountant, CrFA.
5. Artificial Intelligence (AI) in Accounting – repetitive tasks such as entering invoice and transaction data could be done by AI software. AI systems analyze reports and graphics.
6. Data Analytics and Visualization in Accounting – among the top skills sought by employers. Data analytics is a process of analyzing data to identify meaningful relations and trends. Includes four basic types of analytics: 1) Descriptive: summarizes and describes events from the past; 2) Diagnostic: reveals causes of events from the past; 3) Predictive: predicts likely events for the future; and 4) Prescriptive: creates action plans to achieve a desired future.
7. Data visualization is a graphical presentation of data to help people understand their significance. They help people make informed business decisions.

II. **Fundamentals of Accounting**

A. Ethics—A Key concept—Ethics are beliefs that separate right from wrong.

1. Fraud Triangle: Ethics under Attack—model that asserts three factors must exist for a person to commit fraud: opportunity, pressure, and rationalization.

Internal Controls—procedures to protect assets, ensure reliable accounting, promote efficiency, and uphold company policies.

B. Generally Accepted Accounting Principles (GAAP)—concepts and rules that govern financial accounting. The purpose of GAAP is to make information in accounting statements relevant, reliable, and comparable.

1. The Financial Accounting Standards Board (FASB) is given the task of setting GAAP from the Securities and Exchange Commission (SEC). The SEC oversees proper use of GAAP.
2. International Standards—The International Accounting Standards Board (IASB) issues standards (International Financial Reporting Standards, or IFRS) that identify preferred accounting practices in the global economy. IFRS are similar but sometimes different from U.S. GAAP.

C. Conceptual Framework—FASB Conceptual Framework consists of:

1. Objectives—to provide information useful to investors, creditors, and others.
2. Qualitative Characteristics—to require information that has relevance and faithful representation.
3. Elements—to define items in financial statements.
4. Recognition and Measurement—to set criteria that an item must meet for it to be recognized as an element; and how to measure that element.
5. Principles, Assumptions and Constraint—two types are *general principles* (assumptions, concepts, and guidelines for preparing financial statements; stem from long-used accounting practices) and *specific principles* (detailed rules used in reporting transactions and events).

a. Accounting Principles—General principles consist of four general principles:

i *Measurement principle (cost principle)*—accounting information is based on actual costs incurred in business transactions. Cost is measured on a cash or equal-to-cash basis. Information based on cost is considered objective. *Objectivity* means information is supported by independent, unbiased evidence.

ii *Revenue recognition principle*—revenue is recognized (recorded) (1) when goods or services are provided to customers and (2) at the amount expected to be received from the customer.

iii *Expense recognition principle (matching principle)*—a company record expenses it incurred to generate revenues it reported.

iv *Full disclosure principle*—a company records the details behind financial statements that would impact users' decisions; often in footnotes to the statements.

b. Accounting Assumptions -

i. *Going-concern assumption*—accounting information presumes that the business will continue operating instead of being closed or sold.

ii. *Monetary unit assumption*—transactions and events are expressed in monetary, or money, units. Generally, this is the currency of the country in which it operates, but today some companies express reports in more than one monetary unit.

iii. *Time period assumption*—the life of the company can be divided into time periods, such as months and years, and useful reports can be prepared for those periods.

iv. *Business entity assumption*—a business is accounted for separately from other business entities and its owner. Necessary for good decisions.

c. Exhibit 1.8: Types and Attributes of Businesses

i. *Sole proprietorship* is a business owned by one person that has unlimited liability. It is not a separate legal entity. The owner has unlimited liability and is, therefore, personally liable for the business debts.

ii. *Partnership* is a business owned by two or more people, called partners, who are subject to unlimited liability. The business is not subject to an income tax, but the owners are responsible for personal income tax on their individual share of the net income of entity.

iii. *Limited Liability Company (LLC)* is a business owned by one or more members. It offers limited liability to the members who are not personally liable for the debts of the LLC, and is a separate entity with the same rights and responsibilities as a person.

iv. *Corporation* is a business that is a separate legal entity whose owners are called shareholders or stockholders. These owners have limited liability. The entity is responsible for a business income tax, and the owners are responsible for personal income tax on profits that are distributed to them in the form of dividends.

d. Accounting Constraint on financial reporting.

i. The *cost-benefit* constraint says that information disclosed by the entity must have benefits to the user that are greater than the costs of providing it.

ii. The *materiality* constraint is the ability of information to influence decisions.

iii. *Conservatism* and *industry practices* are sometimes referred to as constraints as well.

III. Business Transactions and Accounting

A. Accounting Equation (Assets = Liabilities + Equity)—elements of the equation include:

1. Assets—resources a company owns or controls that are expected to carry future benefits. Examples: cash, accounts receivable, supplies, equipment, and land).
2. Liabilities—creditors' claims on assets. These claims reflect obligations to transfer assets or provide products or services to others. Examples: wages payable, accounts payable, notes payable, and taxes payable.
3. Equity—owner's claim on assets; assets minus liabilities. Also called *net assets* or *residual equity.* Increases in equity result from owner investments and revenues. Decreases results from dividends and expenses. Equity consists of:

   a. Common stock —owner investments are inflows of cash and other net assets from shareholders in exchange for stock which increase equity.

   b. Revenues —increase equity from sales of products and services to customers. Revenues increase equity (via net income) and result from a company's earnings activities.

   c. Dividends—outflows of cash and other assets to shareholders which decrease equity.

   d. Expenses—cost of assets or services used to earn revenues Expenses decrease equity.

   e. Expanded Accounting Equation:

   Assets = Liabilities + Common stock – Dividends + Revenues – Expenses. Net income occurs when revenues exceed expenses. Net income increases equity. A net loss occurs when expenses exceed revenues, which decreases equity.

B. Transaction Analysis—each transaction and event always leaves the equation in balance. (Assets = Liabilities + Equity)

1. Investment by owner:

ASSET	=	LIABILITIES	+	EQUITY
+ Cash			**+**	**Common stock**

Increase on both sides of equation keeps equation in balance.

2. Purchase supplies for cash:

   ASSET = LIABILITIES + EQUITY

   + Supplies

   − Cash

   Increase and decrease on one side of the equation keeps equation in balance.

3. Purchase equipment for cash:

   ASSET = LIABILITIES + EQUITY

   + Equipment

   – Cash

   Increase and decrease on one side of the equation keeps equation in balance.

4. Purchase supplies on credit:

   ASSET = LIABILITIES + EQUITY

   + Supplies **+ Accounts Payable**

   Increase on both sides of equation keeps equation in balance.

5. Provide services for cash:

   ASSET = LIABILITIES + EQUITY

   + Cash **+ Revenue Earned**

   Increase on both sides of equation keeps equation in balance.

6, 7. Payment of expenses in cash (salaries, rent, etc.):

   ASSET = LIABILITIES + EQUITY

   − Cash **− + Expense**

   Decrease on both sides of equation keeps equation in balance.

8. Provided services and facilities for credit:

   ASSET = LIABILITIES + EQUITY

   + Accts. Receivable **+ Revenue Earned**

   Increase on both sides of equation keeps equation in balance.

9. Receipt of cash from accounts receivable (customers paying on their accounts):

   ASSET = LIABILITIES + EQUITY

   + Cash

   − Accts. Receivable

   Increase and decrease on one side of the equation keeps equation in balance.

10. Payment of accounts payable:

   ASSET = LIABILITIES + EQUITY

   − Cash **− Accounts Payable**

   Decrease on both sides of equation keeps equation in balance.

11. Payment of Cash Dividends:

   ASSET = LIABILITIES + EQUITY

   − Cash **− (+ Dividends)**

   Decrease on both sides of equation keeps equation in balance. (Note: since dividends are not expenses, they are not used in computing net income.)

IV. Financial Statements

The four financial statements and their purposes are:

A. *Income Statement*—describes a company's revenues and expenses along with the resulting net income or loss over a period of time. (Net income occurs when revenues exceed expenses. Net loss occurs when expenses exceed revenues.)

B. *Statement of Retained Earnings* —explains changes in retained earnings from net income (or loss), and dividends over a period of time. Retained earnings is cumulative net income minus any dividend distributions.

C. *Balance Sheet*—describes a company's financial position (types and amounts of assets, liabilities, and equity) at a point in time.

D. *Statement of Cash Flows*—identifies cash inflows (receipts) and cash outflows (payments) over a period of time.

Statement Preparation from Transaction Analysis—prepared in the following order using the *procedure* indicated below.

A. Income Statement—information about revenues and expenses is conveniently taken from the owner's equity column. Total revenues minus total expenses equals net income or loss. Net income (or net loss) is transferred to the Statement of Retained Earnings.

B. Statement of Retained Earnings—reports retained earnings over the reporting period. Shows beginning retained earnings balance, dividends and net income, (or net loss) from the income statement, Ending retained earnings balance is added to Balance Sheet.

C. Balance Sheet—shows the financial position as of the date of the statement. Includes the balance of each asset, liability and the ending retained earnings balance. Note that the retained earnings balance is taken from the statement of retained earnings, and added to total liabilities to get total liabilities and equity. This total must agree with total assets to prove the accounting equation. Either the *account form* or the *report form* may be used to prepare the balance sheet.

D. Statement of Cash Flows—the cash column must be carefully analyzed to organize and report cash flows in categories of operating, investing, and financing. The net change in cash is determined by combining the net cash flow in each of the three categories. This change is combined with the beginning cash. The resulting figure should be the ending cash that was shown on the balance sheet.

V. **ESG Reporting and Analysis. ESG is Environmental, social, and governance** which is a framework that depicts how companies behave as responsible stewards of the environment, principled members of society, and accountable leaders. Includes sustainable practices, socially responsible activities and many related areas of mission-driven business practices.

VI. **Decision Analysis—Return on Assets (ROA)—**a profitability measure. Also called Return on Investment (ROI).

A. Useful in evaluating management, analyzing and forecasting profits, and planning activities.

B. The return on assets is calculated by dividing net income for a period by average total assets. (Average total assets is determined by adding the beginning and ending assets and dividing by 2.)

C. As with all analysis tools, results should be compared to previous business results as well as competitor's results and industry norms.