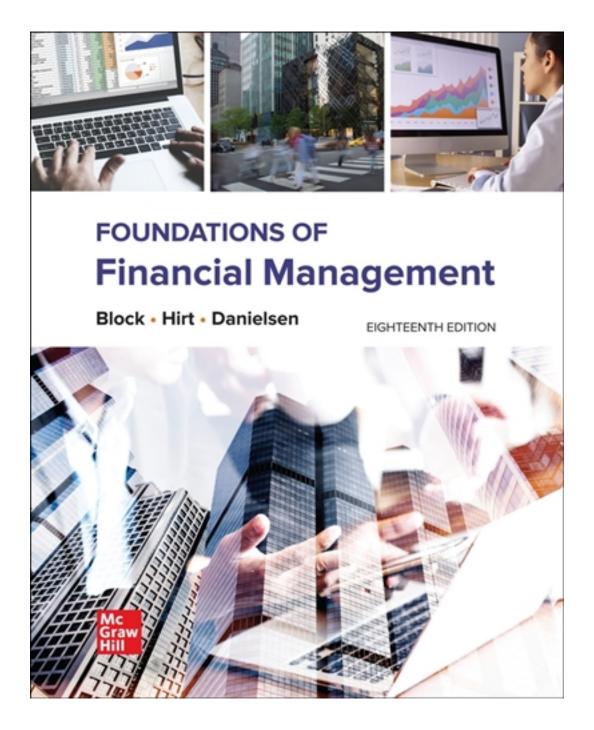
## Solutions for Foundations of Financial Management 18th Edition by Bloc

#### **CLICK HERE TO ACCESS COMPLETE Solutions**



# Solutions

## 2

### Review of Accounting

#### **Author's Overview**

As already discussed, finance is a blend of accounting, economics, and other disciplines. This chapter will prove invaluable in establishing the relationship between accounting and finance, whether the student has already taken accounting or not. Though it is assumed that every student taking the introductory course in managerial finance has had course work in accounting, many students are in need of a review. By explicitly covering this review material early in the course, the student is able to grasp later material more easily and the instructor does not have to continually close the "accounting gaps" during the course. The instructor must, of course, decide whether to lecture on this material or merely assign it as reading. Some may choose to forego it altogether. Our experience as professors is that the introductory accounting curriculum has changed over the years and does not always cover the relationship between the balance sheet, income statement, and statement of cash flows. Before covering the financial analysis material in the next chapter, understanding Chapter 2 is a necessity. Also, cash flow generation is necessary for understanding capital budgeting decisions.

#### **Chapter Concepts**

- LO1. Explain what an income statement measures.
- LO2. Recall the price-earnings ratio indicates the relative valuation of earnings.
- LO3. Understand that the balance sheet shows assets and the financing of those assets with debt and equity.
- LO4. Explain what the statement of cash flows indicates.
- LO5. Recognize that depreciation provides a tax reduction benefit that increases cash flow.

**Perspective 2-1:** P/E ratios provide a new concept and can be of benefit to the student. Students tend to respond enthusiastically to stock market considerations in valuation. They can get a feel for P/E ratios and how they change over time in Table 2-3.

#### **Annotated Outline and Strategy**

#### I. The Income Statement

#### **PPT** Kramer Corporation—Income Statement (Table 2-1)

- A. The income statement begins with the total amount of sales (revenues) that are generated within a specific period of time.
- B. The various expenses that occur in generating the sales are subtracted in stair-step fashion to arrive at the net income for the defined period.
- C. The separation of the expense categories such as cost of goods sold, selling and administrative expenses, depreciation, interest, and taxes enables the management to assess the relative importance and appropriateness of the expenditures in producing each level of sales.
- D. The "bottom line" value, net income, is the aggregate amount available to the owners.

  TBEXAM.COM
- E. Net income is converted from an aggregate value to an earnings per share (EPS) value by dividing net income by the number of shares of outstanding stock.
- F. The EPS is a measurement of the return available to providers of equity capital to the firm. The return to the providers of debt capital, interest, appears earlier in the income statement as a tax-deductible expense.

#### PPT Kramer Corporation—Statement of Retained Earnings (Table 2-2)

- G. The earnings per share may be converted to a measure of current value through application of the price-earnings (P/E) ratio.
- H. The P/E ratio is best used as a relative measure of value because the numerator, price, is based on the future and the denominator, earnings, is a current measure.

#### PPT Price-earnings ratios for selected U.S. companies (Table 2-3)

- I. There are limitations associated with the income statement. For example, the income statement reflects only income occurring to the individual or business firm from verifiable transactions as opposed to the economists' definition of income, which reflects changes in real worth. Furthermore, flexibility in the application of Generally Accepted Accounting Principles may cause similar events to be recorded and reported differently.
- J. The statement of retained earnings, a supplement to the income statement, indicates the disposition of earnings.

#### II. Balance Sheet

#### **PPT** Kramer Corporation—Balance Sheet (Table 2-4)

- A. Whereas the income statement provides a summary of financial transactions for a specific time period, the balance sheet portrays the cumulative results of transactions at a point in time. The balance sheet may present the position of the firm as a result of transactions for six months, 25 years, or other periods.
- B. The balance sheet is divided into two broad categories. The assets employed in the operations of the firm compose one category while the other, liabilities and net worth, is composed of the sources of financing for the employed assets.
- C. Within the asset category, the assets are listed in their order of liquidity.
  - 1. Cash (including demand deposits) current assets
  - 2. Marketable securities: investments of temporarily excess cash in highly liquid securities
  - 3. Accounts receivable
  - 4. Inventory
  - 5. Prepaid expenses: future expense items that have already been paid
  - 6. Investments: investments in securities and other assets for longer than one operating cycle
  - 7. Plant and equipment adjusted for accumulated depreciation
- D. The various sources of financing of a firm are listed in their order of maturity. Those sources that mature earliest, current liabilities, are listed first. The more permanent debt and equity sources follow.
  - 1. Accounts payable
  - 2. Notes payable
  - 3. Accrued expenses: an obligation to pay is incurred but payment has not

been made

- 4. Long-term debt: all or a majority of the principal will be paid beyond the current period
- 5. Preferred stock
- 6. Common stock accounts:
  - a. Common stock (par value)
  - b. Capital paid in excess of par
  - c. Retained earnings

#### E. Confusing balance sheet–related terms

- 1. Retained earnings is the account used to measure the accumulation of earnings over the life of the firm. It includes "all the income the firm ever made minus all the dividends the firm ever paid." It is not a bucket of money that can be reinvested, but the annual increase in retained earnings is one of the sources of funds that make up the existing investment level.
- 2. Net worth or book value of the firm is composed of the various common equity accounts and represents the net contributions of the owners to the business plus the earnings retained by the firm (Retained Earnings—see above).
- Book value is a historical value and does not necessarily coincide with the market value of the owner's equity.

#### TBEXAM.COM

F. Limitations of the balance sheet: Values are recorded at cost. Replacement cost of some assets, particularly plant and equipment, may greatly exceed their recorded value. Research and development are a valuable asset to some of the world's most valuable companies like Apple, Google, and Amazon. However, standard accounting practice is to deduct these costs on the income statement as incurred resulting on R&D investments never shown on the firm balance sheets.

**Perspective 2-2:** Illustrate the substantial differences that may exist between market definitions of value and accounting definitions.

**PPT** Comparison of Market Value to Book Value per Share in January 2021 (Table 2-5)

#### **III.** Statement of Cash Flows

A. In November 1987, the accounting profession replaced the statement of changes in financial position (and the sources and uses of funds statement) with the Statement

of Cash Flows as a required financial statement.

- B. The new statement emphasizes the critical nature of cash flow to the operations of the firm.
- C. The three primary sections of the statement of cash flows are:
  - 1. Cash flows from operating activities.
  - 2. Cash flows from investing activities.
  - 3. Cash flows from financing activities.

#### **PPT** Illustration of concepts behind the statement of cash flows (Figure 2-1)

- D. Income from operations may be translated from an accrual basis to a cash basis in two ways to obtain cash flow from operations.
  - 1. Direct method: each and every item on the income statement is adjusted from accrual accounting to cash accounting.
  - 2. Indirect method: a less tedious process than the direct method is usually preferred. Net income is used as the starting point and adjustments are made to convert net income to cash flows from operations. Beginning with net income,
    - a. Add depreciation for the current period, decreases in individual current asset accounts (other than cash), and increases in current liabilities.
    - b. Subtract increases in current asset accounts (other than cash) and decreases in current liabilities.

**Perspective 2-3:** The steps necessary for computing cash flow from operations are illustrated in Figure 2-2. The actual numerical material can be found in Tables 2-1, 2-6, and 2-7.

PPT	<b>Steps in Computing Net Cash Flows from Operating Activities Using</b>
	the Indirect Method (Figure 2-2)

PPT	
PPT	Kromor Cornoration Comporative Relance Sheets (Table 7.6)
11 1 1	<b>Kramer Corporation—Comparative Balance Sheets</b> (Table 2-6)

|--|

- E. Cash flow from investing is found by summing the changes of investment in securities and plant and equipment. Increases are uses of funds and decreases are sources of funds.
- F. Cash flow from financing activities is found by summing the sale or retirement of corporate securities and dividends. The sale of securities is a source of funds and the retirement of securities and payment of dividends are uses of funds.
- G. Cash flows from operations, cash flows from investing, and cash flows from financing are combined to arrive at the net cash flows. The net increase or decrease shown in the statement of cash flows will be equal to the change in the cash balance on the balance sheet.

**PPT** Cash Flows from Investing Activities (Table 2-8)

**PPT** Cash Flows from Financing Activities (Table 2-9)

**Perspective 2-4:** The three sections of the statement of cash flows are brought together in Table 2-10. In the example, highlight how the cash flows from operating activities are funding investing and financing activities.

**Perspective 2-5:** The Finance in Action Box discusses some of the major differences between international accounting standards (IFRS) and U.S. generally accepted accounting principles (GAAP) and is a good example of how the global economy is impacting financial reporting.

PPT Kramer Corporation—Statement of Cash Flows (Table 2-10)

#### Finance in Action: International Accounting Standards vs. U.S. GAAP

Economies and capital markets have moved to a global platform, creating the need for a uniform reporting standard. This led to the formation of International Financial Reporting Standards (IFRS) by the International Accounting Standards Board (IASB), which was adopted by many countries except the United States. In the U.S., the Financial Accounting Standards Board (FASB) developed reporting standards know as Generally Accepted Accounting Principles (GAAP). Many standards have been aligned; however, significant differences remain between IFRS and U.S. GAAP.

#### IV. Depreciation and Funds Flow

A. Depreciation is an attempt to allocate an initial asset cost over its life.

- B. Depreciation is an accounting entry and does not involve the movement of funds.
- C. As indicated in the statement of cash flows, depreciation is added back to net income to arrive at cash flow.

**Perspective 2-6:** To illustrate how the initial purchase of an asset and the subsequent write-off of depreciation affects cash flow, refer to Table 2-11.

**PPT** Comparison of accounting and cash flows (Table 2-11)

## Finance in Action Ethics: Taxes a Strategic Tool for Competition between Countries and States.

Switzerland is only one example of a European country with lower tax rates than the U.S., and it demonstrates why some corporations have moved their headquarters out of the United States. In response to this exodus, Congress lowered the federal corporate tax rate from 35 percent to 21 percent beginning in 2018, substantially reducing incentives to relocate overseas.

#### V. Free Cash Flow

A. Free cash flow is equal to cash flow from operating activities:

Minus: Capital expenditures (required to maintain the productive capacity of the firm)

Minus: Dividends (needed to maintain the necessary payout on common stock and to cover any preferred stock obligation)

- B. The amount of free cash flow is often a determining factor as to whether a leveraged buyout is possible.
- C. When management suspects its stock is undervalued, a special financing activity may take the form of a leveraged buyout.

#### VI. Income Tax Considerations

- A. Personal taxes at varying rates apply to the earnings of proprietors and partners.
- B. Starting December 2017, a major tax bill passed by Congress changed the corporate tax rate from as high as 35 percent to a flat rate of 21 percent. Some state and foreign taxes may still apply to increase the overall rate higher than 21 percent.
- C. The aftertax cost of a tax-deductible business expense can be calculated by taking

the (expense)  $\times$  (1 – tax rate).

D. Although depreciation is a noncash expense, it does affect cash flow by reducing taxes. Tax reduction in cash outflow for taxes resulting from depreciation charges may be computed by multiplying the (depreciation expense) × (tax rate).

TBEXAM.COM

## Chapter 2 Review of Accounting

#### **Discussion Questions**

2-1. Discuss some financial variables that affect the price-earnings ratio.

The price-earnings ratio will be influenced by the earnings and sales growth of the firm, the risk or volatility in performance, the debt-equity structure of the firm, the dividend payment policy, the quality of management, and a number of other factors. The ratio tends to be future-oriented, and the more positive the outlook, the higher it will be.

2-2. What is the difference between book value per share of common stock and market value per share? Why does this disparity occur?

Book value per share is arrived at by taking the cost of the assets and subtracting out liabilities and preferred stock and dividing by the number of common shares outstanding. It is based on the historical cost of the assets. Market value per share is based on the current assessed value of the firm in the marketplace and may bear little relationship to original cost. Besides the disparity between book and market value caused by the historical cost approach, other contributing factors are the growth prospects for the firm, the quality of management, and the industry outlook. To the extent these are quite negative or positive; market value may differ widely from book value.

2-3. Explain how depreciation generates actual cash flows for the company.

The only way depreciation generates cash flows for the company is by serving as a tax shield against reported income. This non-cash deduction may provide cash flow equal to the tax rate times the depreciation charged. This much in taxes will be saved, while no cash payments occur.

2-4. What is the difference between accumulated depreciation and depreciation expense? How are they related?

Accumulated depreciation is the sum of all past and present depreciation charges, while depreciation expense is the current year's charge. They are related in that the sum of all prior depreciation expense should be equal to accumulated depreciation (subject to some differential related to asset write-offs).

2-5. How is the income statement related to the balance sheet?

The earnings (less dividends) reported in the income statement is transferred to the ownership section of the balance sheet as retained earnings. Thus, what we earn in the income statement becomes part of the ownership interest in the balance sheet.

2-6. Comment on why inflation may restrict the usefulness of the balance sheet as normally presented.

The balance sheet is based on historical costs. When prices are rising rapidly, historical cost data may lose much of their meaning—particularly for plant and equipment and inventory.

2-7. Explain why the statement of cash flows provides useful information that goes beyond income statement and balance sheet data.

The income statement and balance sheet are based on the accrual method of accounting, which attempts to match revenues and expenses in the period in which they occur. However, accrual accounting does not attempt to properly assess the cash flow position of the firm. The statement of cash flows fulfills this need.

#### TBEXAM.COM

2-8. What are the three primary sections of the statement of cash flows? In what section would the payment of a cash dividend be shown?

The sections of the statement of cash flows are:

Cash flows from operating activities Cash flows from investing activities Cash flows from financing activities

The payment of cash dividends falls into the financing activities category.

2-9. What is free cash flow? Why is it important to leveraged buyouts?

Free cash flow is equal to cash flow from operating activities:

Minus: Capital expenditures required to maintain the productive capacity

of the firm.

Minus: Dividends (required to maintain the payout on common stock and

to cover any preferred stock obligation).

The analyst or banker normally looks at free cash flow to determine whether there are sufficient excess funds to pay back the loan associated with the leveraged buyout.

2-10. Why is interest expense said to cost the firm substantially less than the actual expense, while dividends cost it 100 percent of the outlay?

Interest expense is a tax-deductible item to the corporation, while dividend payments are not. The net cost to the corporation of interest expense is the amount paid multiplied by the difference of one minus the applicable tax rate.

For example, \$100 of interest expense costs the company \$65 after taxes when the corporate tax rate is 35 percent—for example,  $$100 \times (1-0.35) = $65$ .

#### **Problems**

- 1. **Income Statement (LO1)** Frantic Fast Foods had earnings after taxes of \$410,000 in the year 20X1 with 301,000 shares outstanding. On January 1, 20X2, the firm issued 30,000 new shares. Because of the proceeds from these new shares and other operating improvements, earnings after taxes increased by 25 percent.
  - a. Compute earnings per share for the year 20X1.
  - b. Compute earnings per share for the year 20X2.

#### 2-1. Solution:

#### **Frantic Fast Foods**

a. Year 20X1

Earnings per share = 
$$\frac{\text{Earnings after taxes}}{\text{Shares outstanding}}$$
  
=  $\$410,000 / 301,000 = \$1.36$ 

b. Year 20X2

Earnings after taxes = 
$$$410,000 \times 1.25 = $512,500$$
  
Shares outstanding =  $301,000 + 30,000 = 331,000$ 

Earnings per share 
$$= \$512,500 / 331,000 = \$1.55$$

- 2. **Income statement (LO1)** Sosa Diet Supplements had earnings after taxes of \$800,000 in the year 20X1 with 200,000 shares of stock outstanding. On January 1, 20X2, the firm issued 50,000 new shares. Because of the proceeds from these new shares and other operating improvements, earnings after taxes increased by 30 percent.
  - a. Compute earnings per share for the year 20X1.
  - b. Compute earnings per share for the year 20X2.

#### 2-2. Solution:

#### **Sosa Diet Supplements**

a. Year 20X1

Earnings per share 
$$=$$
  $\frac{\text{Earnings after taxes}}{\text{Shares outstanding}}$ 

$$= \frac{\$800,000}{200,000} = \$4.00$$

b. Year 20X2

Earnings after taxes = 
$$$800,000 \times 1.30 = $1,040,000$$
  
Shares outstanding =  $200,000 + 50,000 = 250,000$   
Earning per share =  $\frac{$1,040,000}{250,000} = $4.16$ 

- 3. *a.* **Gross profit (LO1)** Swank Clothiers had sales of \$375,000 and cost of goods sold of \$246,000. What is the gross profit margin (ratio of gross profit to sales)?
  - b. If the average firm in the clothing industry had a gross profit of 30 percent, how is the firm doing?

#### 2-3. Solution:

#### **Swank Clothiers**

$$Gross Profit Margin = \frac{Gross Profit}{Sales} = \frac{$129,000}{$375,000}$$
$$= 34\%$$

- b. With a gross profit of 34 percent, the firm is outperforming the industry average of 30 percent.
- 4. **Operating profit (LO1)** A-Rod Fishing Supplies had sales of \$2,500,000 and cost of goods sold of \$1,710,000. Selling and administrative expenses represented 10 percent of sales. Depreciation was 6 percent of the total assets of \$4,680,000. What was the firm's operating profit?

#### 2-4. Solution:

Chapter 02: Review of Accounting

#### **A-Rod Fishing Supplies**

Sales	\$2,500,000
Cost of goods sold	<u>1,710,000</u>
Gross Profit	790,000
Selling and administrative expense*	250,000
Depreciation expense**	280,800
Operating profit	\$ 259,200

**Income statement (LO1)** Arrange the following income statement items so they are in the proper order of an income statement:

Earnings per share Earnings before taxes Shares outstanding Cost of goods sold Interest expense TBEXAM. CEarnings after taxes Depreciation expense Preferred stock dividends Earnings available to common Operating profit stockholders

Selling and administrative expense

Sales

Gross profit

#### 2-5. **Solution:**

Sales

Cost of goods sold

Gross profit

- Selling and administrative expense
- Depreciation expense

Operating profit

- Interest expense

Earnings before taxes

- Taxes

Earnings after taxes

Preferred stock dividends

<sup>©</sup> McGraw Hill LLC. All rights reserved. No reproduction or distribution without the prior written consent of McGraw Hill LLC.

Chapter 02: Review of Accounting

Earnings available to common stockholders Shares outstanding Earnings per share

6. **Income statement (LO1)** Given the following information, prepare an income statement for the Dental Drilling Company.

Selling and administrative expense\$	112,000
Depreciation expense	
Sales	489,000
Interest expense	45,000
Cost of goods sold	156,000
Taxes	47,000

#### 2-6. Solution:

#### **Dental Drilling Company**

#### **Income Statement**

\$ 489,000
\$ 156,000
\$ 333,000
\$ 112,000
\$ 73,000
\$ 148,000
\$ 45,000
\$ 103,000
\$ 47,000
\$ 56,000

#### Chapter 02: Review of Accounting

7. **Income statement (LO1)** Given the following information, prepare in good form an income statement for Jonas Brothers Cough Drops.

Selling and administrative expense	\$ 328,000
Depreciation expense	195,000
Sales	1,660,000
Interest expense	129,000
Cost of goods sold	560,000
Taxes	

#### 2-7. Solution:

#### Jonas Brothers Cough Drops Income Statement

Sales	\$1,660,000
Cost of goods sold	560,000
Gross profit	1,100,000
Selling and administrative expense	328,000
Depreciation expense	195,000
Operating profitTBEXAM.COM	577,000
Interest expense	129,000
Earnings before taxes	448,000
Taxes	171,000
Earnings after taxes	5 277,000

8. **Determination of profitability (LO1)** Prepare in good form an income statement for Franklin Kite Co. Inc. Take your calculations all the way to computing earnings per share.

Sales	\$900,000
Shares outstanding	50,000
Cost of goods sold	400,000
Interest expense	40,000
Selling and administrative expense	60,000
Depreciation expense	20,000
Preferred stock dividends	80,000
Taxes	50,000

 $\vdash$ 

Chapter 02: Review of Accounting

#### 2-8. Solution:

#### Franklin Kite Company Income Statement

Sales	\$900,000
Cost of goods sold	400,000
Gross profit	500,000
Selling and administrative expense	60,000
Depreciation expense	20,000
Operating profit	\$420,000
Interest expense	40,000
Earnings before taxes	\$380,000
Taxes	50,000
Earnings after taxes	\$330,000
Preferred stock dividends	80,000
Earnings available to common stockholders.	250,000
Shares outstanding	50,000
Earnings per shareTREXAMCOM	\$5.00

9. **Determination of profitability (LO1)** Prepare an income statement for Virginia Slim Wear. Take your calculations all the way to computing earnings per share.

Sales	\$1,360,000
Shares outstanding	104,000
Cost of goods sold	
Interest expense	34,000
Selling and administrative expense	
Depreciation expense	
Preferred stock dividends	
Taxes	100,000

#### 2-9. Solution:

#### Virginia Slim Wear Income Statement

Sales	\$1,360,000
Cost of goods sold	700,000
Gross profit	660,000
Selling and administrative expense	49,000
Depreciation expense	23,000
Operating profit	588,000
Interest expense	34,000
Earnings before taxes	554,000
Taxes	100,000
Earnings after taxes	454,000
Preferred stock dividends	86,000
Earnings available to common stockholders.	\$ 368,000
Shares outstanding	104,000
Earnings per share	\$ 3.54

#### TBEXAM.COM

10. **Income statement (LO1)** Precision Systems had sales of \$820,000, cost of goods of \$510,000, selling and administrative expense of \$60,000, and operating profit of \$103,000. What was the value of depreciation expense? Set this problem up as a partial income statement and determine depreciation expense as the plug figure.

#### 2-10. Solution:

#### **Precision Systems**

Sales	\$820,000
Cost of goods sold	510,000
Gross profit	310,000
Selling and administrative expense	60,000
Depreciation (plug figure)	147,000
Operating profit	\$103,000

11. **Depreciation and earnings (LO1)** Stein Books Inc. sold 1,900 finance textbooks for \$250 each to High Tuition University in 20X1. These books cost \$210 to produce. Stein Books spent \$12,200 (selling expense) to convince the university to buy its books.

Depreciation expense for the year was \$15,200. In addition, Stein Books borrowed \$104,000 on January 1, 20X1, on which the company paid 12 percent interest. Both the interest and principal of the loan were paid on December 31, 20X1. The publishing firm's tax rate is 30 percent.

Did Stein Books make a profit in 20X1? Please verify with an income statement presented in good form.

#### 2-11. Solution:

#### **Stein Books Inc.**

#### **Income Statement**

#### For the Year Ending December 31, 20X1

Sales (1,900 books at \$250 each)	\$475,000
Cost of goods sold (1,900 books at \$210 each)	<u>399,000</u>
Gross profit	76,000
Selling expense	12,200
Depreciation expense	15,200
Operating profitTBEXAM, COM	\$ 48,600
Interest expense (\$104,000 × 12%)	12,480
Earnings before taxes	36,120
Taxes @ 30%	10,836
Earnings after taxes	\$ 25,284

- 12. **Determination of profitability (LO1)** Lemon Auto Wholesalers had sales of \$1,000,000 last year and cost of goods sold represented 78 percent of sales. Selling and administrative expenses were 12 percent of sales. Depreciation expense was \$11,000 and interest expense for the year was \$8,000. The firm's tax rate is 30 percent.
  - a. Compute earnings after taxes.
  - b. Assume the firm hires Ms. Carr, an efficiency expert, as a consultant. She suggests that by increasing selling and administrative expenses to 14 percent of sales, sales can be increased to \$1,050,900. The extra sales effort will also reduce cost of goods sold to 74 percent of sales. (There will be a larger markup in prices as a result of more aggressive selling.) Depreciation expense will remain at \$11,000. However, more automobiles will have to be carried in inventory to satisfy customers, and interest expense will go up to \$15,800. The firm's tax rate will remain at 30 percent. Compute revised earnings after taxes based on Ms. Carr's suggestions for Lemon Auto Wholesalers. Will her ideas increase or decrease profitability?

#### 2-12. Solution:

## **Lemon Auto Wholesalers Income Statement**

a.	Sales	\$1,000,000
	Cost of goods sold (78% of sales)	\$ 780,000
	Gross profit	\$ 220,000
	Selling and administrative expense	
	(12% of sales)	\$ 120,000
	Depreciation	<u>\$ 11,000</u>
	Operating profit	\$ 89,000
	Interest expense	\$ 8,000
	Earnings before taxes	\$ 81,000
	Taxes @ 30%	\$ 24,300
	Earnings after taxes	\$ 56,700
b.	Sales	\$1,050,900
	Cost of goods sold (74% of sales)	\$ 777,666
	Gross profit	\$ 273,234
	Selling and administrative expense	
	(14% of sales)	\$ 147,126
	Depreciation	\$ 11,000
	Operating profit	\$ 115,108
	Interest expense	\$ 15,800
	Earnings before taxes	\$ 99,308
	Taxes @ 30%	\$ 29,792
	Earnings after taxes	\$ 69,516

Ms. Carr's ideas will increase profitability.

13. **Balance sheet (LO3)** Classify the following balance sheet items as current or noncurrent:

Retained earnings Accounts payable Prepaid expenses

Bonds payable Accrued wages payable Accounts receivable

Plant and equipment Capital in excess of par Inventory Preferred stock Common stock Marketable securities

#### 2-13. Solution:

Retained earnings – noncurrent
Accounts payable – current
Prepaid expense – current
Plant and equipment – noncurrent
Inventory – current
Common stock – noncurrent
Bonds payable – noncurrent
Accrued wages payable – current
Accounts receivable – current
Capital in excess of par – noncurrent
Preferred stock – noncurrent
Marketable securities – current

#### TBEXAM.COM

- 14. **Balance sheet and income statement classification (LO1 & 3)** Fill in the blank spaces with categories 1 through 7:
  - 1. Balance sheet (BS)
  - 2. Income statement (IS)
  - 3. Current assets (CA)
  - 4. Fixed assets (FA)

- 5. Current liabilities (CL)
- 6. Long-term liabilities (LL)
- 7. Stockholders' equity (SE)

Indicate Whether Item Is on Balance Sheet (BS) or Income Statement (IS)	If on Balance Sheet, Designate Which Category	Item
		Accounts receivable
		Retained earnings
		Income tax expense
		Accrued expenses
		Cash
		Selling and administrative expenses
		Plant and equipment
		Operating expenses
		Marketable securities

Chapter 02: Review of Accounting

		Interest expense
		Sales
		Notes payable (6 months)
		Bonds payable, maturity 2045
		Common stock
		Depreciation expense
		Inventories
	<del></del>	Capital in excess of par value
<del></del>		Net income (earnings after taxes)
		Income tax payable

#### 2-14. Solution:

- 1. Balance Sheet (BS)
- 2. Income Statement (IS)
- 3. Current Assets (CA)
- 4. Fixed Assets (FA)
- 5. Current Liabilities (CL)
- 6. Long-Term Liabilities (LL)
- 7. Stockholders Equity (SE) COM

Indicate Whether Item is on Income Statement or Balance Sheet	If Item Is on Balance Sheet, Designate Which Category	Item
BS	CA	Accounts Receivable
BS	SE	Retained Earnings
IS		Income Tax Expense
BS	CL	Accrued Expenses
BS	CA	Cash
IS		Selling and Administrative expenses
BS	FA	Plant & Equipment

<sup>©</sup> McGraw Hill LLC. All rights reserved. No reproduction or distribution without the prior written consent of McGraw Hill LLC.

Chapter 02: Review of Accounting

IS		Operating Expenses
BS	CA	Marketable Securities
IS		Interest Expense
IS		Sales
BS	CL	Notes Payable (6 Months)
BS	LL	Bonds Payable (Maturity 2045)
BS	SE	Common Stock
IS		Depreciation Expense
BS	CA	Inventories
BS	SE	Capital in Excess of Par Value
IS		Net Income (Earnings after Taxes)
BS	CL	Income Tax Payable

15. **Development of balance sheet (LO3)** Arrange the following items in proper balance sheet presentation:

TBEXAM.COM

Accumulated depreciation	\$309,000
Retained earnings	187,000
Cash	14,000
Bonds payable	136,000
Accounts receivable	54,000
Plant and equipment—original cost	775,000
Accounts payable	35,000
Allowance for bad debts	9,000
Common stock, \$1 par, 100,000 shares outstanding	100,000
Inventory	70,000
Preferred stock, \$59 par, 1,000 shares outstanding	59,000
Marketable securities	24,000
Investments	20,000
Notes payable	34,000
Capital paid in excess of par (common stock)	88,000

#### **2-15. Solution:**

<sup>©</sup> McGraw Hill LLC. All rights reserved. No reproduction or distribution without the prior written consent of McGraw Hill LLC.

#### **Assets**

Current Assets:	
Cash	\$ 14,000
Marketable securities	24,000
Accounts receivable \$ 54,000	
Less: Allowance for bad debts 9,000	45,000
Inventory	<u> 70,000</u>
Total current assets	\$153,000
Other Assets:	
Investments	20,000
Fixed Assets:	
Plant and equipment \$775,000	
Less: Accumulated depreciation 309,000	
Net plant and equipment	466,000
Total assets	<u>\$ 639,000</u>
Liabilities and Stockholders' Equity	
Liabilities and Stockholders' Equity  Current Liabilities:	
	\$ 35,000
Current Liabilities:	\$ 35,000 34,000
Current Liabilities: Accounts payable	•
Current Liabilities: Accounts payable Notes payable	34,000
Current Liabilities: Accounts payable Notes payable Total current liabilities	34,000
Current Liabilities: Accounts payable Notes payable Total current liabilities Long-term liabilities	\$ 69,000
Current Liabilities: Accounts payable Notes payable Total current liabilities Long-term liabilities Bonds payable	34,000 \$ 69,000 _136,000
Current Liabilities: Accounts payable Notes payable Total current liabilities Long-term liabilities Bonds payable Total liabilities	34,000 \$ 69,000 _136,000
Current Liabilities: Accounts payable Notes payable Total current liabilities Long-term liabilities Bonds payable Total liabilities Stockholders' equity:	34,000 \$ 69,000 136,000 \$205,000
Current Liabilities: Accounts payable Notes payable Total current liabilities Long-term liabilities Bonds payable Total liabilities Stockholders' equity: Preferred stock, \$59 par, 1,000 shares outstanding	34,000 \$ 69,000 \$ 205,000 59,000
Current Liabilities: Accounts payable Notes payable Total current liabilities Long-term liabilities Bonds payable Total liabilities Stockholders' equity: Preferred stock, \$59 par, 1,000 shares outstanding Common stock, \$1 par, 100,000 shares outstanding	34,000 \$ 69,000 \$ 205,000 \$ 59,000 100,000
Current Liabilities: Accounts payable Notes payable Total current liabilities Long-term liabilities Bonds payable Total liabilities Stockholders' equity: Preferred stock, \$59 par, 1,000 shares outstanding Common stock, \$1 par, 100,000 shares outstanding Capital paid in excess of par (common stock)	34,000 \$ 69,000 \$ 136,000 \$205,000 59,000 100,000 88,000

- 16. **Earnings per share and retained earnings (LO1 and 3)** Elite Trailer has an operating profit or \$250,000. Interest expense for the year was \$32,000; preferred dividends paid were \$32,700; and common dividends paid were \$38,300. The tax was \$63,500. The firm has 24,100 shares of common stock outstanding.
  - a. Calculate the earnings per share and the common dividends per share for Elite Trailer.
  - b. What was the increase in retained earnings for the year?

#### 2-16. Solution:

#### Elite Trailer

a.	Operating profit (EBIT)	\$250,000
	Interest expense	32,000
	Earnings before taxes (EBT)	\$218,000
	Taxes	63,500
	Earnings after taxes (EAT)	\$154,500
	Preferred dividends	32,700
	Available to common stockholders	\$121,800
	Common dividends	38,300
	Increase in retained earnings	\$83,500

$$EPS = \frac{Earnings \ Available \ to \ Common \ Stockholders}{Number \ of \ Shares \ of \ Common \ Stock \ Outstanding}$$

= \$121,800/24,100 shares

= \$5.05 per share

Dividends per share = \$38,300/24,100 shares

= \$1.59 per share

- b. Increase in retained earnings = \$83,500
- 17. **Earnings per share and retained earnings (LO1 and 3)** Quantum Technology had \$669,000 of retained earnings on December 31, 20X2. The company paid common dividends of \$35,500 in 20X2 and had retained earnings of \$576,000 on December 31,

20X1. How much did Quantum Technology earn during 20X2, and what would earnings per share be if 47,400 shares of common stock were outstanding?

#### 2-17. Solution:

#### **Quantum Technology**

Retained earnings, December 31, 20X2	\$669,000
Less: Retained earnings, December 31, 20X1	576,000
Change in retained earnings	\$93,000
Add: Common stock dividends	35,500
Earnings available to common stockholders	\$128,500

Earnings per share

$$=\frac{\$128,500}{47,400 \text{ shares}} = \$2.71 \text{ per share}$$

- 18. **Price/earning ratio (LO2)** Botox Facial Care had earnings after taxes of \$370,000 in 20X1 with 200,000 shares of stock<u>routstanding. The</u> stock price was \$31.50. In 20X2, earnings after taxes increased to \$436,000 with the same 200,000 shares outstanding. The stock price was \$42.00.
  - a. Compute earnings per share and the P/E ratio for 20X1.
     (The P/E ratio equals the stock price divided by earnings per share.)
  - b. Compute earnings per share and the P/E ratio for 20X2.
  - c. Give a general explanation of why the P/E ratio changed.

#### 2-18. Solution:

#### **Botox Facial Care**

a. EPS (20X1) = 
$$\frac{\$370,000}{200,000}$$
 = \$1.85  
P/E ratio (20X1) = Price/EPS =  $\frac{\$31.50}{\$1.85}$  = 17.03 $x$   
b. EPS (20X2) =  $\frac{\$436,000}{200,000}$  = \$2.18

P/E ratio (20X2) = Price/EPS = 
$$\frac{$42.00}{$2.18}$$
 = 19.27x

- c. The stock price increased by 33.33% while EPS only increased 17.84%.
- 19. **Price/earning ratio (LO2)** Stilley Corporation had earnings after taxes of \$436,000 in 20X2 with 200,000 shares outstanding. The stock price was \$42.00. In 20X3, earnings after taxes declined to \$206,000 with the same 200,000 shares outstanding. The stock price declined to \$27.80.
  - a. Compute earnings per share and the P/E ratio for 20X2.
  - b. Compute earnings per share and the P/E ratio for 20X3.
  - *c*. Give a general explanation of why the P/E changed. You might want to consult the textbook to explain this surprising result.

#### **2-19. Solution:**

#### **Stilley Corporation**

a. EPS (20X2) 
$$= \frac{\$436,000}{200,000} = \$2.18$$
P/E ratio (20X2) 
$$= \frac{\$42.00}{\$2.18} = 19.27x$$

b. EPS (20X3) 
$$= \frac{\$206,000}{200,000} = \$1.03$$

P/E ratio (20X3) = Price/EPS = 
$$\frac{$27.80}{$1.03}$$
 = 26.99x

- c. As explained in the text, when EPS drops rapidly, the stock price might not decline as much, and the P/E ratio rises. A higher P/E ratio under adverse conditions is not a positive.
- 20. **Cash flow** (**LO4**) Identify whether each of the following items increases or decreases cash flow:

Increase in accounts receivable

Increase in notes payable

Decrease in prepaid expenses Increase in inventory

Depreciation expense

Increase in investments

Decrease in accounts payable

Dividend payment
Increase in accrued expenses

#### 2-20. Solution:

Increase in accounts receivable – decreases cash flow (use)

Increase in notes payable – increases cash flow (source)

Depreciation expense – increases cash flow (source)

Increase in investments – decreases cash flow (use)

Decrease in accounts payable – decreases cash flow (use)

Decrease in prepaid expense – increases cash flow (source)

Increase in inventory – decreases cash flow (use)

Dividend payment – decreases cash flow (use)

Increase in accrued expenses – increases cash flow (source)

21. **Depreciation and cash flow (LO5)** The Rogers Corporation has a gross profit of \$880,000 and \$360,000 in depreciation expense. The Evans Corporation also has \$880,000 in gross profit, with \$60,000 in depreciation expense. Selling and administrative expense is \$120,000 for each company.

Given that the tax rate is 40 percent, compute the cash flow for both companies. Explain the difference in cash flow between the two firms.

#### **2-21. Solution:**

#### **Rogers Corporation – Evans Corporation**

	Rogers	Evans
Gross profit	\$880,000	\$880,000
Selling and adm. expense	120,000	120,000
Depreciation	360,000	60,000
Operating profit	\$400,000	\$700,000
Taxes (40%)	160,000	280,000
Earnings after taxes	\$240,000	\$420,000
Plus depreciation expense	\$360,000	\$60,000
Cash flow	\$600,000	\$480,000

Rogers had \$300,000 more in depreciation which provided \$120,000

⋈

Chapter 02: Review of Accounting

 $(0.40 \times \$300,000)$  more in cash flow.

- 22. **Free cash flow (LO4)** Nova Electrics anticipates cash flow from operating activities of \$13 million in 20X1. It will need to spend \$8.5 million on capital investments to remain competitive within the industry. Common stock dividends are projected at \$1.1 million and preferred stock dividends at \$1.3 million.
  - a. What is the firm's projected free cash flow for the year 20X1?
  - b. What does the concept of free cash flow represent?

#### 2-22. Solution:

#### **Nova Electronics**

a.	Cash flow from operations activities	\$13 million
	<ul> <li>Capital expenditures</li> </ul>	8.5
	<ul> <li>Common stock dividends</li> </ul>	1.1
	<ul> <li>Preferred stock dividends</li> </ul>	1.3
	Free cash flow	\$2.1 million

- b. Free cash flow represents the funds that are available for special financial activities, such as a leveraged buyout, increased dividends, common stock repurchases, acquisitions, or repayment of debt.
- 23. **Book value (LO3)** Landers Nursery and Garden Stores has current assets of \$220,000 and fixed assets of \$170,000. Current liabilities are \$80,000 and long-term liabilities are \$140,000. There is \$40,000 in preferred stock outstanding and the firm has issued 25,000 shares of common stock. Compute book value (net worth) per share.

#### 2-23. Solution:

#### **Landers Nursery and Garden Stores**

Current assets	\$220,000
Fixed assets	170,000
Total assets	\$390,000
- Current liabilities	80,000
- Long-term liabilities	140,000

Stockholders' equity	\$17	70,000
- Preferred stock obligation		10,000
Net worth assigned to common	<u>\$13</u>	<u>30,000</u>
Common shares outstanding	2	25,000
Book value (net worth) per share	\$	5.20

- 24. **Book value and market value (LO2 and 3)** The Holtzman Corporation has assets of \$400,000, current liabilities of \$50,000, and long-term liabilities of \$100,000. There is \$40,000 in preferred stock outstanding; 20,000 shares of common stock have been issued.
  - a. Compute book value (net worth) per share.
  - b. If there is \$22,000 in earnings available to common stockholders, and Holtzman's stock has a P/E of 18 times earnings per share, what is the current price of the stock?
  - c. What is the ratio of market value per share to book value per share?

#### 2-24. Solution:

#### **Holtzman Corporation**

a.	Total asset	ts	TBEXAM.COM	•••••	\$400,000
	- Current	liabili	ities	•••••	50,000
	- Long-ter	•••••	100,000		
	- Stockhol	lders'	equity	•••••	\$250,000
	<ul><li>Preferred</li></ul>	d stoc	k	•••••	40,000
	Net wor	th ass	signed to common	•••••	\$210,000
	Comn	non sl	hares outstanding	•••••	20,000
	Book va	lues (	(net worth) per share	•••••	\$10.50
b.	Earnings a	vaila	ble to common	•••••	\$22,000
	Shares out	stand	ling	•••••	20,000
	Earnings p	er sh	are	•••••	\$1.10
	P/E ratio	×	earnings per share	=	price
	18	×	\$1.10	=	\$19.80

c. Market value per share (price) to book value per share \$19.80/\$10.50 = 1.89

⋈

#### Chapter 02: Review of Accounting

- 25. **Book value and market value (LO2 and 3)** Amigo Software Inc. has total assets of \$889,000, current liabilities of \$192,000, and long-term liabilities of \$154,000. There is \$87,000 in preferred stock outstanding. Thirty thousand shares of common stock have been issued.
  - a. Compute book value (net worth) per share.
  - *b*. If there is \$56,300 in earnings available to common stockholders, and the firm's stock has a P/E of 23 times earnings per share, what is the current price of the stock?
  - c. What is the ratio of market value per share to book value per share? (Round to two places to the right of the decimal point.)

#### 2-25. Solution:

#### Amigo Software, Inc.

a.	Total assets	\$889,000
	- Current liabilities	192,000
	– Long-term liabilities	154,000
	Stockholders' equity	\$543,000
	- Preferred stock	87,000
	Net worth assigned to common	<u>\$456,000</u>
	Common shares outstanding	30,000
	Book value (net worth) per share	\$ 15.20
b.	Earnings available to common	\$ 56,300 30,000
	Earnings per share	\$ 1.88
	$P/E \text{ ratio } \times \text{ earnings per share } =$	price
	23 × \$1.88 =	\$43.24

- c. Market value per share (price) to book value per share \$43.24/\$15.20 = 2.84
- 26. **Book value and P/E ratio (LO2 and 3)** Vriend Software Inc.'s book value per share is \$15.20. Earnings per share is \$1.88, and the firm's stock trades in the stock market at 3.5 times book value per share, what will the P/E ratio be? (Round to the nearest whole number.)

#### 2-26. Solution:

#### Vriend Software Inc.

 $3.5 \times \text{book value per share} = \text{price}$ 

$$3.5 \times \$15.20 = \$53.20$$

$$\frac{Price}{Earnings\ per\ share} = P/E$$

$$\frac{$53.20}{$1.88}$$
 = 28.30P/E ratio round to 28x

27. **Construction of income statement and balance sheet (LO1 and 3)** For December 31, 20X1, the balance sheet of Baxter Corporation was as follows:

<b>Current Assets</b>	TBEXAM.CO	M Liabilities
Cash	\$ 15,000	Accounts payable \$ 17,000
Accounts receivable	20,000	Notes payable
Inventory	30,000	Bonds payable 55,000
Prepaid expenses	12,500	
Fixed Assets		Stockholders' Equity
Plant and equipment (gross)	\$255,000	Preferred stock \$25,000
Less: Accumulated		Common stock 60,000
depreciation	51,000	Paid-in capital 30,000
Net plant and equipment	\$204,000	Retained earnings 69,500
		Total liabilities and
Total assets	<u>\$281,500</u>	stockholders' equity \$281,500

Sales for 20X2 were \$245,000, and the cost of goods sold was 60 percent of sales. Selling and administrative expense was \$24,500. Depreciation expense was 8 percent of plant and equipment (gross) at the beginning of the year. Interest expense for the notes payable was 10 percent, while the interest rate on the bonds payable was 12 percent. This interest expense is based on December 31, 20X1 balances. The tax rate averaged 20 percent.

\$2,500 in preferred stock dividends were paid, and \$5,500 in dividends were paid to common stockholders. There were 10,000 shares of common stock outstanding.

During 20X2, the cash balance and prepaid expenses balances were unchanged. Accounts receivable and inventory increased by 10 percent. A new machine was purchased on December 31, 20X2, at a cost of \$40,000.

Accounts payable increased by 20 percent. Notes payable increased by \$6,500 and bonds payable decreased by \$12,500, both at the end of the year. The preferred stock, common stock, and paid-in capital in excess of par accounts did not change.

- a. Prepare an income statement for 20X2.
- b. Prepare a statement of retained earnings for 20X2.
- c. Prepare a balance sheet as of December 31, 20X2.

#### 2-27. Solution:

## Baxter Corporation 20X2 Income Statement

a.	Sales	\$245,000
	Cost of goods sold (60%)	147,000
	Gross profit	\$ 98,000
	Selling and administrative expense	24,500
	Depreciation expense (8%)	$20,400^{1}$
	Operating profit (EBIT)	\$ 53,100
	Interest expense	$9,100^2$
	Earnings before taxes	\$ 44,000
	Taxes (20%)	8,800
	Earnings after taxes (EAT)	\$ 35,200
	Preferred stock dividends	2,500
	Earnings available to common stockholder	\$ 32,700
	Shares outstanding	10,000
	Earnings per share	\$ 3.27
b.	20X2 Statement of Retained Earnings	
	Retained earnings balance, January 1, 20X2	\$ 69,500
	Add: Earnings available to common	
	stockholders, 20X2	32,700
	Deduct: Cash dividend declared in 20X2	5,500

 $<sup>^{1}</sup>$  8% × \$255,000 = \$20,400

 $<sup>^{2}(10\% \</sup>times \$25,000) + (12\% \times \$55,000) = \$9,100$ 

<sup>©</sup> McGraw Hill LLC. All rights reserved. No reproduction or distribution without the prior written consent of McGraw Hill LLC.

Retained earnings balance,

December 31, 20X2.....\$96,700

#### c. 20X2 Balance Sheet

#### **Current Assets**

#### Liabilities

		Accounts	
Cash	\$ 15,000	payable	\$20,400
Accounts			
receivable	22,000	Notes payable	31,500
Inventory	33,000	Bonds payable	42,500
Prepaid			
expenses	12,500		
	\$82,500		\$94,400

### Fixed Assets EXAM. COM Stockholders' Equity

		Preferred stock	\$ 25,000
Gross plant	\$295,000	Common stock	60,000
Accumulated		Paid in capital in	
depreciation	$(71,400)^3$	excess of par	30,000
		Retained	
Net plant	223,600	earnings	96,700
		Total liability &	
Total assets	<u>\$306,100</u>	equity	<u>\$306,100</u>

 $<sup>^{3}</sup>$ \$51,000 + \$20,400 = \$71,400

<sup>©</sup> McGraw Hill LLC. All rights reserved. No reproduction or distribution without the prior written consent of McGraw Hill LLC.

#### Chapter 02: Review of Accounting

- 28. **Statement of cash flows (LO4)** Refer to the following financial statements for Crosby Corporation:
  - a) Prepare a statement of cash flows for the Crosby Corporation using the general procedures indicated in Table 2–10.
  - b) Describe the general relationship between net income and net cash flows from operating activities for the firm.
  - c) Has the buildup in plant and equipment been financed in a satisfactory manner? Briefly discuss.
  - d) Compute the book value per common share for both 20X1 and 20X2 for the Crosby Corporation.
  - e) If the market value of a share of common stock is 3.3 times book value for 20X1, what is the firm's P/E ratio for 20X2?

#### **CROSBY CORPORATION**

## Income Statement For the Year Ended December 31, 20X2

Sales	\$2	,200,000
Cost of goods sold	_1	,300,000
		900,000
Gross profits		420,000
Depreciation expense		150,000
Operating income		330,000
Interest expense		90,000
Earnings before taxes		240,000
Taxes		80,000
Earnings after taxes		160,000
Preferred stock dividends		10,000
Earnings available to common stockholders		150,000
Shares outstanding		120,000
Earnings per share	\$	1.25

#### Statement of Retained Earnings For the Year Ended December 31, 20X2

Retained earnings, balance, January 1, 20X2	\$500,000
Add: Earnings available to common stockholders, 20X2	150,000
Deduct: Cash dividends declared and paid in 20X2	50,000
Retained earnings, balance, December 31, 20X2	\$600,000

## Comparative Balance Sheets For 20X1 and 20X2

Assets	Year-End 20X1	Year-End 20X2
Current assets:		
Cash	\$ 70,000	\$100,000
Accounts receivable (net)	300,000	350,000
Inventory	410,000	430,000
Prepaid expenses	50,000	30,000
Total current assets	830,000	910,000
Investments (long-term securities)	80,000	70,000
Plant and equipment	2,000,000	2,400,000
Less: Accumulated depreciation	1,000,000	1,150,000
Net plant and equipment	1,000,000	1,250,000
Total assets	<u>\$1,910,000</u>	<u>\$2,230,000</u>
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 250,000	\$ 440,000
Notes payable	400,000	400,000
Accrued expenses	70,000	50,000
Total current liabilities TBEXAM. COM	720,000	890,000
Long-term natifices.		
Bonds payable, 20X2	70,000	120,000
Total liabilities	790,000	1,010,000
Stockholders' equity:		
Preferred stock, \$100 par value	90,000	90,000
Common stock, \$1 par value	120,000	120,000
Capital paid in excess of par	410,000	410,000
Retained earnings	500,000	600,000
Total stockholders' equity	1,120,000	1,220,000
Total liabilities and stockholders' equity	<u>\$1,910,000</u>	\$2,230,000

(The following questions apply to the Crosby Corporation, as presented in Problem 27.)

#### Solution 2-28 a):

# Crosby Corporation Statement of Cash Flows For the Year Ended December 31, 20X2

Cash flows from operating activities:  Net income (earnings after taxes)  Adjustments to determine cash		\$160,000
flow from operating activities:	¢150 000	
Add back depreciation	\$150,000	
Increase in accounts receivable	(50,000)	
Increase in inventory	(20,000)	
Decrease in prepaid expenses	20,000	
Increase in accounts payable	190,000	
Decrease in accrued expenses	(20,000)	
Total adjustments	,	\$270,000
Net cash flows from operating		
activities		\$430,000
Cash flows from investing activities:		
Decrease in investments	10,000	
Increase in plant and equipment	(400,000)	
Net cash flows from investing activities		(390,000)
Cash flows from financing activities:		
Increase in bonds payable	50,000	
Preferred stock dividends paid	(10,000)	
Common stock dividends paid	(50,000)	
Net cash flows from financing	` ' '	(10,000)
Net increase (decrease) in cash flows		\$ 30,000

The student should observe that the increase in cash flows of \$30,000 equals the \$30,000 change in the cash account on the balance sheet. This indicates the statement is correct.

 $\vdash$ 

Chapter 02: Review of Accounting

#### **Solution 2-28 b):**

Cash flows from operating activities far exceed net income. This occurs primarily because we add back depreciation of \$319,000 and accounts payable increase by \$248,000. Thus, the reader of the cash flow statement gets important insights as to how much cash flow was developed from daily operations.

#### Solution 2-28 c):

The buildup in plant and equipment of \$690,000 (gross) and \$371,000 (net) has been financed, in part, by the large increase in accounts payable (248,000). This is not a very satisfactory situation. Short-term sources of funds can always dry up, while fixed asset needs are permanent in nature. This firm may wish to consider more long-term financing, such as a mortgage, to go along with profits, the increase in bonds payable, and the add-back of depreciation.

TBEXAM.COM

#### Solution 2-28 d):

Book value per share 
$$= \frac{\text{Stockholders' equity} - \text{Preferred stock}}{\text{Common shares outstanding}}$$
Book value per share 
$$(20X1) = \frac{(\$1,120,000 - \$90,000)}{120,000} = \frac{\$1,030,000}{120,000} = \$8.58$$
Book value per share 
$$(20X2) = \frac{(\$1,220,000 - \$90,000)}{120,000} = \frac{\$1,130,000}{120,000} = \$9.42$$

### **Solution 2-28 e):**

Market value =  $3.3 \times \$9.42 = \$31.09$ 

P / E ratio = Market value / Earnings per share

= \$31.09 / \$1.25

= 24.87

TBEXAM.COM