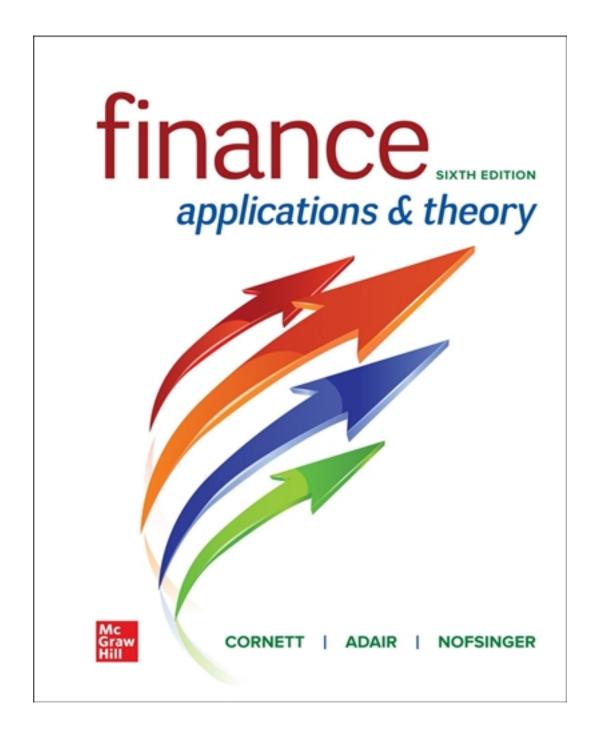
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CHAPTER 2 – REVIEWING FINANCIAL STATEMENTS

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LG2-1 1. List and describe the four major financial statements.

The four basic financial statements are:

- 1. The balance sheet reports a firm's assets, liabilities, and equity at a particular point in time.
- 2. The **income statement** shows the total revenues that a firm earns and the total expenses the firm incurs to generate those revenues over a specific period of time—generally one year.
- 3. The **statement of cash flows** shows the firm's cash flows over a given period of time. This statement reports the amounts of cash the firm generated and distributed during a particular time period. The bottom line on the statement of cash flows—the difference between cash sources and uses—equals the change in cash and marketable securities on the firm's balance sheet from the previous year's balance.
- 4. The **statement of retained earnings** provides additional details about changes in retained earnings during a reporting period. This financial statement reconciles net income earned during a given period minus any cash dividends paid within that period to the change in retained earnings between the beginning and ending of the period.
- 2. On which of the four major financial statements (balance sheet, income statement, statement of cash flows, or statement of retained earnings) would you find the following items?
- a. earnings before taxes income statement
- b. net plant and equipment balance sheet
- c. increase in fixed assets statement of cash flows
- d. gross profits income statement
- e. balance of retained earnings, December 31, 20xx statement of retained earnings and balance sheet
- f. common stock and paid-in surplus balance sheet
- g. net cash flow from investing activities statement of cash flows
- h. accrued wages and taxes balance sheet
- i. increase in inventory statement of cash flows
- LG2-1 3. What is the difference between current liabilities and long-term debt?

Current liabilities constitute the firm's obligations due within one year, including accrued wages and taxes, accounts payable, and notes payable. Long-term debt includes long-term loans and bonds with maturities of more than one year.

LG2-1 4. How does the choice of accounting method used to record fixed asset depreciation affect management of the balance sheet?

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Firm managers can choose the accounting method they use to record depreciation against their fixed assets. Two choices include the straight-line method and the modified accelerated cost recovery system (MACRS). Companies often calculate depreciation using MACRS when they figure the firm's taxes and the straight-line method when reporting income to the firm's stockholders. The MACRS method accelerates deprecation, which results in higher depreciation expenses, lower taxable income, and lower taxes in the early years of a project's life. The straight-line method results in lower depreciation expenses, but also results in higher taxes in the early years of a project's life. Firms seeking to lower their cash outflows from tax payments will favor the MACRS depreciation method.

LG2-1 5. What is bonus depreciation? How did the Tax Cuts and Jobs Act of 2017 temporarily extend and modify bonus depreciation?

Since 2001, businesses have had the ability to immediately deduct a percentage of the acquisition cost of qualifying assets as "bonus depreciation." This additional depreciation deduction was allowed to encourage business investment. However, bonus depreciation was a temporary provision; the rate would have been 50 percent in 2017, 40 percent in 2018, and 30 percent in 2019, before phasing out in 2020. The Tax Cuts and Jobs Act of 2017 extended and modified bonus depreciation, allowing businesses to immediately deduct 100 percent of the cost of eligible property in the year it is placed in service, through 2022. The amount of allowable bonus depreciation will then be phased down over four years: 80 percent will be allowed for property placed in service in 2023, 60 percent in 2024, 40 percent in 2025, and 20 percent in 2026. MACRS or straight-line depreciation is applied to any costs that do not qualify for bonus depreciation.

6. What are the costs and benefits of holding liquid securities on a firm's balance sheet?

The more liquid assets a firm holds, the less likely the firm will be to experience financial distress. However, liquid assets generate little or no profits for a firm. For example, cash is the most liquid of all assets, but it earns little, if any, return for the firm. In contrast, fixed assets are illiquid, but provide the means to generate revenue. Thus, managers must consider the trade-off between the advantages of liquidity on the balance sheet and the disadvantages of having money sit idle rather than generating profits.

LG2-2 7. Why can the book value and market value of a firm differ?

A firm's balance sheet shows its book (or historical cost) value based on Generally Accepted Accounting Principles (GAAP). Under GAAP, assets appear on the balance sheet at what the firm paid for them, regardless of what assets might be worth today if the firm were to sell them. Inflation and market forces make many assets worth more now than they were when the firm bought them. So in most cases, book values differ widely from the market values for the same assets—the amount that the assets would fetch if the firm actually sold them. For the firm's current assets—those that mature within a year—the book value and market value of any particular asset will remain very close. For example, the balance sheet lists cash and marketable

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securities at their market value. Similarly, firms acquire accounts receivable and inventory and then convert these short-term assets into cash fairly quickly, so the book value of these assets is generally close to their market value.

LG2-2 8. From a firm manager's or investor's point of view, which is more important—the book value of a firm or the market value of the firm?

Balance sheet assets are listed at historical cost. Managers would thus see little relation between the total asset value listed on the balance sheet and the current market value of the firm's assets. Similarly, the stockowners' equity listed on the balance sheet generally differs from the true market value of the equity—in this case, the market value may be higher or lower than the value listed on the firm's accounting books. So, financial managers and investors often find that balance sheet values are not always the most relevant numbers.

LG2-3 9. How did the Tax Cuts and Jobs Act of 2017 change corporate tax laws?

The Tax Cuts and Jobs Act (TCJA) of 2017 is the most recent revision of corporate tax laws and represents one of the most significant changes in more than 30 years. The Act permanently lowers corporate taxes from a progressive schedule that saw tax rates as high as 35 percent to a flat 21 percent starting in 2018.

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10. What is the difference between an average tax rate and a marginal tax rate?

A firm can figure the average tax rate as the percentage of each dollar of taxable income that the firm pays in taxes. From your economics classes, you can probably guess that the firm's marginal tax rate is the amount of additional taxes a firm must pay out for every additional dollar of taxable income it earns.

LG2-3 11. How did the Tax Cuts and Jobs Act of 2017 change the tax deductibility of corporate interest in debt?

The Tax Cuts and Jobs Act of 2017 contains a new limitation on the deductibility of net interest expense (interest expense minus interest income) that exceeds 30 percent of a firm's "adjusted taxable income" starting in 2018. For tax years beginning before January 1, 2022, "adjusted taxable income" is measured as a business' EBITDA. For subsequent tax years, "adjusted taxable income" is measured as EBIT, no longer including an add-back for depreciation and amortization. Thus, beginning in 2022, the new limitation will become more severe. Prior corporate tax laws generally allowed full deduction of interest paid or accrued by businesses.

LG2-3 12. How does the payment of interest on debt affect the amount of taxes the firm must pay?

Chapter 2 - Reviewing Financial Statements

Corporate interest payments appear on the balance sheet as an expense item, so we deduct the allowable portion of interest payments from operating income when the firm calculates taxable income. But any dividends paid by corporations to their shareholders are not tax deductible. This is one factor that encourages managers to finance projects with debt financing rather than to sell more stock. Suppose one firm uses mainly debt financing and another firm, with identical operations, uses mainly equity financing. The equity-financed firm will have very little interest expense to deduct for tax purposes. Thus, it will have higher taxable income and pay more taxes than the debt-financed firm. The debt-financed firm will pay fewer taxes and be able to pay more of its operating income to asset funders, i.e., its bondholders and stockholders. So, as long as interest on debt is under the 30 percent allowable cap for tax deduction, even stockholders prefer that firms finance assets primarily with debt rather than with stock.

LG2-4 13. The income statement is prepared using GAAP. How does this affect the reported revenue and expense measures listed on the balance sheet?

Company accountants must prepare firm income statements following GAAP principles. GAAP procedures require that the firm recognize revenue at the time of sale, but sometimes the company receives the cash before or after the time of sale. Likewise, GAAP counsels the firm to show production and other expenses on the balance sheet as the sales of those goods take place. So production and other expenses associated with a particular product's sale only appear on the income statement (for example, cost of goods sold and depreciation) when that product sells. Of course, just as with the revenue recognition, actual cash outflows incurred with production may occur at a very different point in time—usually much earlier than GAAP principles allow the firm to formally recognize the expenses. Further, income statements contain several non-cash entries, the largest of which is depreciation. Depreciation attempts to capture the non-cash expense incurred as fixed assets deteriorate from the time of purchase to the point when those assets must be replaced. Let's illustrate the effect of depreciation: Suppose a firm purchases a machine for \$100,000. The machine has an expected life of five years and at the end of those five years, the machine will have no expected salvage value. The firm lays out a \$100,000 cash outflow at the time of purchase. But the entire \$100,000 does not appear on the income statement in the year that the firm purchases the machine—in accounting terms, the machine is not expensed in the year of purchase. Rather, if the firm's accounting department uses the straightline depreciation method, it deducts only \$100,000/5, or \$20,000, each year as an expense. This \$20,000 equipment expense is not a cash outflow for the firm. The person in charge of buying the machine knows that the cash flow occurred at the time of purchase—and it totaled \$100,000 rather than \$20,000. So, figures shown on an income statement may not represent the actual cash inflows and outflows for a firm during a particular period.

LG2-4 14. Why do financial managers and investors find cash flows to be more important than accounting profit?

Financial managers and investors are far more interested in actual cash flows than they are in the somewhat artificial, backward-looking accounting profit listed on the income statement. This is a very important distinction between the accounting point of view and the finance point of view.

Finance professionals know that the firm needs cash, not accounting profit, to pay the firm's obligations as they come due, to fund the firm's operations and growth, and to compensate the firm's ultimate owners: its shareholders. Thus, the statement of cash flows is a financial statement that shows the firm's cash flows over a given period of time. This statement reports the amounts of cash that the firm generated and distributed during a particular time period.

- LG2-5 15. Which of the following activities result in an increase (decrease) in a firm's cash?
 - a. Decrease fixed assets increase in cash
 - b. Decrease accounts payable decrease in cash
 - c. Pay dividends decrease in cash

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- d. Sell common stock increase in cash
- e. Decrease accounts receivable increase in cash
- f. Increase notes payable increase in cash
- LG2-5 16. What is the difference between cash flows from operating activities, cash flows from investing activities, and cash flows from financing activities?

Cash flows from operations are those cash inflows and outflows that result directly from producing and selling the firm's products. These cash flows include net income, depreciation, and working capital accounts other than cash and operations-related short-term debt. Cash flows from investing activities are cash flows associated with buying or selling of fixed or other long-term assets. This section of the statement of cash flows shows cash inflows and outflows from long-term investing activities—most significantly the firm's investment in fixed assets. Cash flows from financing activities are cash flows that result from debt and equity financing transactions. These include raising cash by issuing short-term debt, issuing long-term debt, issuing stock, using cash to pay dividends, using cash to pay off debt, and using cash to buy back stock.

LG2-5 17. What are free cash flows for a firm? What does it mean when a firm's free cash flow is negative?

Free cash flows are the cash flows available to pay the firm's stockholders and debtholders after the firm has made the necessary working capital investments, fixed asset investments, and developed the necessary new products to sustain the firm's ongoing operations. If free cash flow is negative, the firm's operations produce no cash flows available for investors.

LG2-6 18. What is earnings management?

Managers and financial analysts have recognized for years that firms use considerable latitude in using accounting rules to manage their reported earnings in a wide variety of contexts. Indeed, within the GAAP framework, firms can "smooth" earnings. That is, firms often take steps to over- or understate earnings at various times. Managers may choose to smooth earnings to show

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Chapter 2 - Reviewing Financial Statements

investors that firm assets are growing steadily. Similarly, one firm may be using straight-line depreciation for its fixed assets, while another is using a modified accelerated cost recovery method (MACRS), which causes depreciation to accrue quickly. If the firm uses MACRS accounting methods, its managers write fixed asset values down quickly; assets will thus have lower book value than if the firm used straight line depreciation methods. This process of controlling a firm's earnings is called earnings management.

LG2-6 19. What does the Sarbanes-Oxley Act require of firm managers?

The Sarbanes-Oxley Act, passed in June 2002, requires public companies to ensure that their corporate boards' audit committees have considerable experience applying generally accepted accounting principles (GAAP) for financial statements. The Act also requires that any firm's senior management must sign off on the financial statements of the firm, certifying the statements as accurate and representative of the firm's financial condition during the period covered. If a firm's board of directors or senior managers fails to comply with Sarbanes-Oxley (SOX), the firm may be delisted from stock exchanges.

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T B 2-1 **Balance Sheet** You are evaluating the balance sheet for Goodman's Bees Corporation. From the balance sheet you find the following balances: cash and marketable securities = \$400,000, accounts receivable = \$1,200,000, inventory = \$2,100,000, accrued wages and taxes = \$500,000, accounts payable = \$800,000, and notes payable = \$600,000. Calculate Goodman Bees' net working capital.

Net working capital = Current assets - Current liabilities.

Goodman's Bees' current assets =

Cash and marketable securities = \$400,000Accounts receivable = 1,200,000Inventory = 2,100,000Total current assets \$3,700,000

and current liabilities =

Accrued wages and taxes = \$500,000 Accounts payable = 800,000 Notes payable = 600,000 Total current liabilities \$1,900,000

So the firm's net working capital was 1,800,000 (3,700,000 - 1,900,000).

LG2-1 2-2 **Balance Sheet** Casello Mowing & Landscaping's year-end balance sheet lists current assets of \$435,200, fixed assets of \$550,800, current liabilities of \$416,600, and long-term debt of \$314,500. Calculate Casello's total stockholders' equity.

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Recall the balance sheet identity in Equation 2-1: Assets = Liabilities + Equity. Rearranging this equation: Equity = Assets – Liabilities. Thus, the balance sheets would appear as follows:

	Book value		Book value
Assets		Liabilities and Equity	
Current assets	\$ 435,200	Current liabilities	\$ 416,600
Fixed assets	550,800	Long-term debt	314,500
		Stockholders' equity	254,900
Total	\$ 986,000	Total	\$ 986,000

Total stockholders' equity = \$986,000 - \$731,100 = \$254,900.

LG2-1 2-3 **Income Statement** The Fitness Studio, Inc.'s income statement lists the following income and expenses: EBITDA = \$650,000, EBIT = \$538,000, interest expense = \$63,000, and net income = \$435,000. Calculate the taxes reported on the income statement.

With \$650,000 of EBITDA, The Fitness Studio is allowed to deduct \$195,000 ($$650,000 \times 30$ percent) in net interest expense. The recorded interest expense of \$63,000 is under this limit and is thus all tax deductible.

EBIT	\$538,000
Interest expense	-63,000
EBT	\$ 475,000
Taxes	40,000
Net income	\$435,000

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Taxes = EBT - Net income, \$40,000 = \$475,000 - \$435,000.

2-4 **Income Statement** The Fitness Studio, Inc.'s income statement lists the following income and expenses: EBITDA = \$923,000, EBIT = \$773,500, interest expense = \$100,000, and taxes = \$234,500. The firm has no preferred stock outstanding and 100,000 shares of common stock outstanding. Calculate the earnings per share.

With \$923,000 of EBITDA, The Fitness Studio is allowed to deduct $$276,900 ($923,000 \times 30 \text{ percent})$ in net interest expense. The recorded interest expense of \$100,000 is under this limit and is thus all tax deductible.

EBIT	\$773,500
Interest expense	-100,000
EBT	\$ 673,500
Taxes	-234,500
Net income	\$439,000

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Earnings per share (EPS) =
$$\frac{$439,000}{100,000 \text{ shares}} = $4.39 \text{ per share}$$

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2-5 **Income Statement** Consider a firm with an EBIT of \$850,000. The firm finances its assets with \$2,500,000 debt (costing 7.5 percent and is all tax deductible) and 400,000 shares of stock selling at \$5.00 per share. To reduce firm's risk associated with this financial leverage, the firm is considering reducing its debt by \$1,000,000 by selling an additional 200,000 shares of stock. The firm's tax rate is 21 percent. The change in capital structure will have no effect on the operations of the firm. Thus, EBIT will remain at \$850,000. Calculate the change in the firm's EPS from this change in capital structure.

The EPS before and after this change in capital structure is illustrated below:

	Before	capital struct	ure change	After capital structure change
EBIT		\$850,000		\$850,000
Less: Interest	$(\$2,500,000 \times 0.075)$	187,500	(\$1,500,000	× 0.075) <u>112,500</u>
EBT		662,500		737,500
Less: Taxes (21%	5)	139,125		<u>154,875</u>
Net income		\$523,375		\$582,625
Divide by # of sh	ares	400,000		<u>600,000</u>
EPS		\$1.3084		\$0.9710

The change in capital structure would decrease the stockholders EPS by \$0.3374.

2-6 **Corporate Taxes** Oakdale Fashions, Inc., Income Statement is reported below.

Net sales (all credit)	\$565,000
Less: Cost of goods sold TBEXAM. COM	215,000
Gross profits	350,000
Less: Other operating expenses	90,000
Earnings before interest, taxes, depreciation, and amortization (EBITDA)	260,000
Less: Depreciation and amortization	15,000
Earnings before interest and taxes (EBIT)	245,000
Less: Interest	80,000
Earnings before taxes (EBT)	165,000
Less: Taxes	
Net income	\$

Determine the firm's tax liability, net income, average tax rate, and marginal tax rate. (LG2-3)

With \$260,000 of EBITDA, Oakdale Fashions is allowed to deduct only \$78,000 ($$260,000 \times 30$ percent) of its \$80,000 in net interest expense. Thus,

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Taxable income = EBIT – Allowable interest deduction
= $245,000 - $78,000 = $167,000
```

Tax liability = 0.21x Taxable income = $0.21 \times \$167,000 = \$35,070$

The 30 percent cap on the allowable interest deduction results in an increase in Oakdale Fashions' tax liability of \$420 = [0.21(\$80,000 - \$78,000)].

Net income = EBT – Tax liability
=
$$\$165.000 - \$35.070 = \$129.930$$

The average tax rate for Oakdale Fashions Inc. comes to:

Average tax rate
$$=\frac{\$35,070}{\$167,000}$$
 = 21.00%

If Oakdale Fashions, Inc. earned \$1 more of taxable income, it would pay 21 cents (its tax rate of 21 percent) more in taxes. Thus, the firm's marginal tax rate is 21 percent.

LG2-3 2-7 **Corporate Taxes** Hunt Taxidermy, Inc., is concerned about the taxes paid by the company. In addition to \$42.4 million of taxable income, the firm received \$2,975,000 of interest on state-issued bonds and \$1,000,000 of dividends on common stock it owns in Oakdale Fashions, Inc. Calculate Hunt Taxidermy's tax liability, average tax rate, and marginal tax rate.

In this case, interest on the state-issued bonds is not taxable and should not be included in taxable income. Further, the first 50 percent of the dividends received from Oakdale Fashions is not taxable. Thus, only 50 percent of the dividends received are taxed, so:

Taxable income =
$$\$42,400,000 + (0.5 \times \$1,000,000) = \$42,900,000$$

Now Hunt Taxidermy's tax liability will be:

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Tax liability =
$$0.21 \times \$42,900,000 = \$9,009,000$$
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The \$1,000,000 of dividend income increased Hunt Taxidermy's tax liability by $105,000 (0.5 \times 1,000,000 \times 0.21)$. Hunt Taxidermy's resulting average tax rate is:

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Average tax rage = 9,009,000/42,900,000 = 21.00\%
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Finally, if Hunt Taxidermy earned \$1 more of taxable income, it would pay 21 cents (based upon its tax rate of 21 percent) more in taxes. Thus, the firm's marginal tax rate is 21 percent.

LG2-3 2-8 **Corporate Taxes** Chapman & Power Inc., is concerned about the taxes paid by the company. In addition to \$135,000,000 of taxable income, the firm received \$15,500,000 of interest on state-issued bonds and \$12,000,000 of dividends on common stock it owns in Hunt Taxidermy. Calculate Chapman & Power's tax liability, average tax rate, and marginal tax rate.

In this case, interest on the state-issued bonds is not taxable and should not be included in taxable income. Further, the first 50 percent of the dividends received from Hunt Taxidermy is not taxable. Thus, only 50 percent of the dividends received are taxed, so:

Taxable income =
$$\$135,000,000 + (0.5 \times \$12,000,000) = \$141,000,000$$

Now Chapman & Power's tax liability will be:

Tax liability =
$$0.21 \times \$141,000,000 = \$29,610,000$$

The \$12,000,000 of dividend income increased Chapman & Power's tax liability by $$1,260,000 (0.5 \times $12,000,000 \times 0.21)$. Chapman & Power's resulting average tax rate is:

Average tax rage = \$29,610,000/\$141,000,000 = 21.00%

Finally, if Chapman & Power earned \$1 more of taxable income, it would pay 21 cents (based upon its tax rate of 21 percent) more in taxes. Thus, the firm's marginal tax rate is 21 percent.

LG2-4 2-9 **Statement of Cash Flows** Ramakrishnan Inc. reported 2024 net income of \$15 million and depreciation of \$2,650,000. The top part of Ramakrishnan, Inc.'s 2024 and 2023 balance sheets is listed below (in millions of dollars).

Current assets:	2024	2023	Current liabilities:	<u>2024</u>	<u>2023</u>
Cash and marketable			Accrued wages and		
securities	\$ 20	\$ 15	taxes	\$ 19	\$ 18
Accounts receivable	84	75	Accounts payable	51	45
Inventory	121	110	Notes payable	<u>45</u>	40
Total	\$225	\$200	Total	\$115	\$103

Calculate the 2024 net cash flow from operating activities for Ramakrishnan, Inc.

Cash Flows from Operating Activities

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Net income	\$15,000,000
Additions (sources of cash):	
Depreciation	2,650,000
Increase in accrued wages and taxes	1,000,000
Increase in accounts payable	6,000,000
Subtractions (uses of cash):	
Increase in accounts receivable	-9,000,000 TBEXAM.CO <u>M</u> 11,000,000
Increase in inventory	TBEXAM. COM11,000,000
NT-4 L flow from a monting activities	\$4.650,000
Net cash flow from operating activities:	\$4,650,000

2-10 **Statement of Cash Flows** Usher Sports Shop had cash flows from investing activities of -\$4,364,000 and cash flows from financing activities of -\$5,880,000. The balance in the firm's cash account was \$1,615,000 at the beginning of the year and \$1,742,000 at year-end. Calculate Usher Sports Shop's cash flow from operations.

Net change in cash and marketable securities = \$1,742,000 - \$1,615,000 = \$127,000

Cash flows from operating activities = \$10,371,000Cash flows from investing activities = -4,364,000Cash flows from financing activities = -5,880,000Net change in cash and marketable securities = \$127,000

2-11 **Free Cash Flow** You are considering an investment in Fields and Struthers, Inc., and want to evaluate the firm's free cash flow. From the income statement, you see that Fields and Struthers earned an EBIT of \$62 million, had a tax rate of 21 percent, and its depreciation expense was \$5 million. Fields and Struthers' gross fixed assets increased by \$32 million from last year to this year. The firm's current assets increased by \$20 million and spontaneous current liabilities increased by \$12 million. Calculate Fields and Struthers' NOPAT, operating cash flow, investment in operating capital, and free cash flow.

Fields and Struthers' NOPAT was:

NOPAT = EBIT(1 - Tax rate) = \$62m.(1 - 0.21) = \$48.98m.

Operating cash flow was:

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Investment in operating capital was:

IOC =
$$\Delta$$
Gross fixed assets + Δ Net operating working capital = \$32m. + (\$20m. - \$12m.) = \$40 m.

Accordingly, Fields and Struthers' free cash flow was:

In other words, Fields and Struthers had cash flows of \$13.98 million available to pay its stockholders and debtholders.

LG2-1 2-12 **Statement of Retained Earnings** Mr. Husker's Tuxedos, Corp. began the year with \$256 million in retained earnings. The firm earned net income of \$33 million and paid dividends of \$5 million to its preferred stockholders and \$10 million to its common stockholders. What is the year-end balance in retained earnings for Mr. Husker's Tuxedos?

The statement of retained earnings is as follows:

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Balance of retained earnings, last year	\$256m.	
Plus: Net income		33m.
Less: Cash dividends paid		
Preferred stock	\$5m.	
Common stock	<u>10m.</u>	
Total cash dividends paid	<u> </u>	15m.
Balance of retained earnings this year is	\$274m.	

LG2-3 2-13 **Spreadsheet Problem: Corporate Taxes** Everybody's Fitness Income Statement is reported below (in millions of dollars).

Net sales (all credit)	\$885
Less: Cost of goods sold	440
Gross profits	445
Less: Other operating expenses	215
Earnings before interest, taxes, depreciation, and amortization (EBITDA)	230
Less: Depreciation and amortization	52
Earnings before interest and taxes (EBIT)	178
Less: Interest	<u>75</u>
Earnings before taxes (EBT)	103
Less: Taxes	
Net income	<u>\$</u>

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Chapter 2 - Reviewing Financial Statements

Determine the firm's tax liability, net income, average tax rate, and marginal tax rate. (LG2-3)

With \$230,000,000 of EBITDA, Everybody's Fitness is allowed to deduct only $$69,000,000 ($230,000,000 \times 30 \text{ percent})$ of its $75,000,000 in net interest expense. Thus,$

Tax liability =
$$0.21 \times \text{Taxable income}$$

= $0.21 \times \$109,000,000) = \$22,890,000$

The 30 percent cap on the allowable interest deduction results in an increase in Everybody's Fitness' tax liability of $\$1,260,000 (= 0.21 \times (\$75,000,000 - \$69,000,000))$.

Net income = EBT – Tax liability
=
$$$103,000,000 - $22,890,000 = $80,110,000$$

The average tax rate for Everybody's Fitness comes to:

Average tax rate
$$=$$
 $\frac{$22,890,000}{$109,000,000} = 21.00\%$

If Everybody's Fitness earned \$1 more of taxable income, it would pay 21 cents (its tax rate of 21 percent) more in taxes. Thus, the firm's marginal tax rate is 21 percent.

4	А	В	С	D	Е
1	Everybody's Fitness Income Statement (in millions of dollars)			Solution	
2					
3	Net sales (all credit)	\$ 885		Cap on Interest Deduction	30%
4	Less: Cost of goods sold	<u>440</u>		Tax Rate	21%
5	Gross profits	445			
6	Less: Other operating expenses	215		Taxable Income =	109
7	Earnings before interest, taxes, depreciation, and amortization (EBI	230		Tax Liability =	22.89
8	Less: Depreciation and amortization	<u>52</u>			
9	Earnings before interest and taxes (EBIT)	178			
10	Less: Interest	<u>75</u>			
11	Earnings before taxes (EBT)	103			
12	Less: Taxes			Less: Taxes	\$22.89
13	Net income	\$		Net income	\$80.11
14					
15				Average Tax Rate =	\$0.21
16				Marginal Tax Rate =	21%
17				_	

LG2-1 2-14 **Spreadsheet Problem: Statement of Retained Earnings** Use the following information to find dividends paid to common stockholders during 2024.

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\$462m.

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Balance of retained earnings, December 31, 2023

Plus: Net income for 2024 Less: Cash dividends paid

Preferred stock \$1m.

Common stock 6m.

Total cash dividends paid 7m. Balance of retained earnings, December 31, 2024 \$470m.

Total cash dividends paid = \$470m. – \$15m. – \$462m. = -\$7m. Thus, common stock dividends paid = \$7m. – \$1m =

	E	F	G
1	(in millions)		
2	Balance of retained earnings, December 31, 2023		\$462
3	Plus: Net income for 2024		15
4	Less: Cash dividends paid		
5	Preferred stock	\$1	
6	Common stock	\$6	
7	Total cash dividends paid		\$7
8	Balance of retained earnings, December 31, 2024		\$470

intermediate 2-15 **Balance Sheet** Mikey's Bar and Grill has total assets of \$15 million of which \$5 million are current assets. Cash makes up 10 percent of the current assets and accounts receivable makes up another 40 percent of current assets. Mikey's gross plant and equipment has a book value of \$11.5 million and other long-term assets have a book value of \$500,000. Using this information, what is the balance of inventory and the balance of depreciation on Mikey's Bar and Grill's balance sheet?

> Current assets: (in millions) Cash and marketable securities \$ 0.5 $(0.1 \times \$5)$ Accounts receivable 2.0 $(0.4 \times \$5)$ (\$5 - \$0.5 - \$2.0)Inventory step 1. Total Fixed assets: Gross plant and equipment \$11.5 2.0 Less: Depreciation (\$11.5 - \$9.5)Net plant and equipment step 3. \$9.5 (\$10.0 - \$0.5)Other long-term assets Total step 2. \$10.0 (\$15.0 - \$5.0)Total assets \$15.0

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LG2-1 2-16 **Balance Sheet** Sophie's Tobacco Shop has total assets of \$91.8 million. Fifty percent of these assets are financed with debt of which \$28.9 million is current liabilities. The firm has no preferred stock, but the balance in common stock and paid-in surplus is \$20.4 million. Using this information what is the balance for long-term debt and retained earnings on Sophie's Tobacco Shop's balance sheet?

sheet:		(: :11:)
Total current liabilities		(in millions) \$28.9
Long-term debt: Total debt:	step 3. step 2.	$ \begin{array}{r} 17.0 \\ \$45.9 \\ \end{array} $ (= \$45.9 - \$28.9) \$45.9 (= 0.5 × \$91.8)
Stockholders' equity: Preferred stock		\$ 0.0
Common stock and paid-in surplus (20 million shares)		20.4
Retained earnings	-	<u>25.5</u> (= \$45.9 – \$20.4)
Total liabilities and equity	step 4 step 1.	\$45.9 (= \$91.8 - \$45.9) \$91.8 (= Total Assets)
Total liabilities and equity	step 1.	$\underline{\$91.8}$ (= Total Assets)

2-17 Market Value versus Book Value Muffin's Masonry, Inc's balance sheet lists net fixed asset as \$14 million. The fixed assets could currently be sold for \$19 million. Muffin's current balance sheet shows current liabilities of \$5.5 million and net working capital of \$4.5 million. If all the current accounts were liquidated today, the company would receive \$7.25 million cash after paying the \$5.5 million in current liabilities. What is the book value of Muffin's Masonry's assets today? What is the market value of these assets?

		BOOK VALUE		MARKET VALUE
Assets Current assets Fixed assets	Step 1.	\$10m. 14m.	Step 3.	\$12.75m. 19.00m.
Total	Step 2.	\$24m.	Step 4.	\$31.75m.

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> Step 1. Net working capital (book value) = Current assets (book value) - Current liabilities (book value) = \$4.5m. = Current assets (book value) - \$5.5m. => Current assets (book value) = \$4.5m. + \$5.5m. = \$10m. Step 2. Total assets (book value) = 10m. + 14m. = 24m.Step 3. Net working capital (market value) = Current assets (market value) - Current liabilities (market value) = \$7.25m. = Current assets (market value) - \$5.5m. => Current assets (market value) = \$7.25m. + \$5.5m. = \$12.75m.

Step 4. Total assets (market value) = 12.75m. + 19m. = 31.75m.

LG2-2 2-18 Market Value versus Book Value Ava's SpinBall Corp. lists fixed assets of \$12 million on its balance sheet. The firm's fixed assets have recently been appraised at \$16 million. Ava's SpinBall Corp.'s balance sheet also lists current assets at \$5 million. Current assets were appraised at \$6 million. Current liabilities' book and market values stand at \$3 million and the firm's book and market values of long-term debt are \$7 million. Calculate the book and market values of the firm's stockholders' equity. Construct the book value and market value balance sheets for Ava's SpinBall Corp. (LG2)

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Recall the balance sheet identity in Equation 2-1: Assets = Liabilities + Equity. Rearranging this equation: Equity = Assets - Liabilities. Thus, the balance sheets would appear as follows:

	BOOK	MARKET		BOOK	MARKET
	VALUE	VALUE		VALUE	VALUE
Assets			Liabilities and Equity		
Current assets	\$ 5m.	\$ 6m.	Current liabilities	\$ 3m.	\$ 3m.
Fixed assets	<u>12m.</u>	<u>16m.</u>	Long-term debt	7m.	7m.
			Stockholders' equity	<u>7m.</u>	<u>12m.</u>
Total	\$17m.	\$22m.	Total	\$17m.	\$22m.

2-19 **Debt versus Equity Financing** You are considering a stock investment in one of two firms (NoEquity, Inc., and NoDebt, Inc.), both of which operate in the same industry and have identical EBITDA of \$37.7 million and operating income of \$32.5 million. NoEquity, Inc., finances its \$65 million in assets with \$64 million in debt (on which it pays 10 percent interest annually) and \$1 million in equity. NoDebt, Inc., finances its \$65 million in assets with no debt and \$65 million in equity. Both firms pay a tax rate of 21 percent on their taxable income. Calculate the net income and return on asset-funders' investment for the two firms.

With \$37.7 million of EBITDA NoEquity Inc., may deduct up to \$11.31 million ($$37.7 \times 30$ percent) of interest expense for tax purposes. Thus, NoEquity Inc., is allowed to deduct all of its interest expense.

		<u>NoEquity</u>	NoDebt
Operating income Less: Interest Taxable income Less: Taxes (21%) Net income Income available for asset funders (= Operating income - Taxes)	TBEXAM.COM (\$64m. × 0.1)	\$32.500m <u>6.400m</u> \$26.100m <u>5.481m</u> <u>\$20.619m</u> \$10.379m	\$32.500m <u>0.000m</u> \$32.500m <u>6.825m</u> <u>\$25.675m</u> \$25.675m

Return on asset-funders' investment \$27.019m/\$65m = 41.57% \$25.675m/\$65m = 39.50%

- LG2-1 2-20 **Income Statement** You have been given the following information for Corky's Bedding Corp.:
 - a. Net sales = \$11,250,000.

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- b. Cost of goods sold = \$7,500,000.
- c. Other operating expenses = \$250,000.
- d. Addition to retained earnings = \$1,000,000.
- e. Dividends paid to preferred and common stockholders = \$817,000.
- f. Interest expense = \$850,000, all of which is tax deductible.

The firm's tax rate is 35 percent. Calculate the depreciation expense for Corky's Bedding Corp.

Net sales		\$11,250,000
Less: Cost of goods sold		7,500,000
Gross profits	Step 4.	\$3,750,000
Less: Other operating expenses	_	250,000

Earnings before interest, taxes, depreciation, and amortization (EBITDA) Step 5. \$3,500,000 Less: Depreciation Step 6. 350,000 Earnings before interest and taxes (EBIT) Step 3. \$3,150,000 Less: Interest 850,000 Earnings before taxes (EBT) Step 2. \$2,300,000 Less: Taxes (21%) Net income Step 1. \$1,817,000 Less: Common and preferred stock dividends \$ 817,000 Addition to retained earnings \$1,000,000

```
Step 1. Net income = Common and preferred stock dividends + Addition to retained earnings = \$817,000 + \$1,000,000 = \$1,817,000
```

```
Step 2. EBT (1 - \text{Tax rate}) = \text{Net income} => \text{EBT} = \text{Net income}/(1 - \text{Tax rate}) = \$1,817,000/(1 - 0.21) = \$2,300,000
```

- Step 3. EBIT Interest = EBT => EBIT = EBT + Interest = \$2,300,000 + \$850,000 = \$3,150,000
- Step 4. Gross profits = Net sales Cost of goods sold = \$11,250,000 \$7,500,000 = \$3,750,000
- Step 5. EBITDA = Gross profits Other operating expenses = \$3,750,000 250,000 = \$3,500,000
- Step 6. EBITDA Depreciation = EBIT => Depreciation = EBITDA EBIT = \$3,500,000 \$3,150,000 = \$350,000

≥ LG2-1 2-21 **Income Statement** You have been given the following information for Moore's HoneyBee Corp.:

a. Net sales = \$32,000,000.

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- b. Gross profits = \$18,700,000.
- c. Other operating expenses = \$2,500,000.
- d. Addition to retained earnings = \$6,343,000, AM COM
- e. Dividends paid to preferred and common stockholders = \$2,900,000.
- f. Depreciation expense = \$2,800,000.

The firm's tax rate is 21 percent. The firm's interest expense is all tax deductible. Calculate the cost of goods sold and the interest expense for Moore's HoneyBee Corp.

N-41		¢22,000,000
Net sales		\$32,000,000
Less: Cost of goods sold	Step 1.	13,300,000
Gross profits		\$18,700,000
Less: Other operating expenses		2,500,000
Earnings before interest, taxes, depreciation,	, and	
amortization (EBITDA)	Step 4.	\$16,200,000
Less: Depreciation		2,800,000
Earnings before interest and taxes (EBIT)	Step 5.	\$13,400,000
Less: Interest	Step 6.	1,700,000
Earnings before taxes (EBT)	Step 3.	\$11,700,000
Less: Taxes (21%)		
Net income	Step 2.	<u>\$ 9,243,000</u>
Less: Common and preferred stock dividend	ls	\$2,900,000
Addition to retained earnings		\$6,343,000

```
Step 1. Net sales – Cost of goods sold = Gross profits => Cost of goods sold = Net sales – Gross Profits = \$32,000,000 - \$18,700,000 = \$13,300,000
```

Step 2. Net income = Common and preferred stock dividends + Addition to retained earnings = \$2,900,000 + \$6,343,000 = \$9,243,000

Step 3. EBT (1 - Tax rate) = Net income = EBT = Net income/(1 - Tax rate) = \$9,243,000/(1 - 0.21) = \$11,700,000

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Chapter 2 - Reviewing Financial Statements

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Step 4. EBITDA = Gross profits - Other operating expenses = $18,700,000 - $2,500,000 = $16,200,000 
Step 5. EBITDA - Depreciation = EBIT = $16,200,000 - $2,800,000 = $13,400,000 
Step 6. EBIT - Interest = EBT => Interest = EBIT - EBT = $13,400,000 - $11,7000,000 = $1,700,000
```

2-22 **Income Statement** Consider a firm with an EBITDA of \$1,100,000 and an EBIT of \$1,000,000. The firm finances its assets with \$4,500,000 debt (costing 8 percent, all of which is tax deductible) and 200,000 shares of stock selling at \$16.00 per share. To reduce risk associated with this financial leverage, the firm is considering reducing its debt by \$2,500,000 by selling additional shares of stock. The firm's tax rate is 21 percent. The change in capital structure will have no effect on the operations of the firm. Thus, EBIT will remain at \$1,000,000. Calculate the change in the firm's EPS from this change in capital structure.

With \$1,100,000 of EBITDA, the firm may deduct up to \$330,000 (\$1,100,000 \times 30 percent) of interest expense for tax purposes. Thus, given the current capital structure, the firm may deduct only \$330,000 of its \$360,000 interest expense (\$4,500,000 \times 0.08) for tax purposes. Thus,

```
Taxable income = EBIT – Allowable interest deduction

= \$1,000,000 - \$330,000 = \$670,000

Tax liability = 0.21 \times \text{Taxable income}

= 0.21 \times \$670,000 = \$140,700
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T B With the proposed change in capital structure, the firm may deduct all of its $$160,000 \times ($2,000,000 \times 0.08)$ interest expense for tax purposes.

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Number of shares of stock that must be sold to raise $2,500,000: \bigcircM $2,500,000/$16 = 156,250 => number of shares of stock outstanding after refinancing = 200,000 + 156,250 = 356,250
```

The EPS before and after this change in capital structure is illustrated below:

	Before c	apital struct	ure change After	capital structure change
EBIT	\$	1,000,000	\$	1,000,000
Less: Interest	$(\$4,500,000 \times 0.08)$	360,000	$(\$2,000,000 \times 0.08)$	<u>160,000</u>
EBT		640,000		840,000
Less: Taxes (21%))	140,700		<u>176,400</u>
Net income		\$499,300		\$663,600
Divide by # of sha	ires	200,000		<u>356,250</u>
EPS		\$2.4965		\$1.8627

The change in capital structure will result in a decrease in the stockholders EPS by \$0.6338.

- LG2-3 2-23 **Corporate Taxes** The Dakota Corporation had a 2023 taxable income of \$33,365,000 from operations after all operating costs but before (1) interest charges of \$8,500,000, all of which is tax deductible; (2) dividends received of \$750,000; (3) dividends paid of \$5,250,000; and (4) income taxes. The firm's EBITDA is \$tax rate is 21 percent.
 - a. Calculate Dakota's income tax liability.

The first 50 percent of the dividends received is not taxable. Thus, only 50 percent of the dividends received are taxed, so:

Taxable income = $\$33,365,000 - \$8,500,000 + (0.5 \times \$750,000) = \$25,240,000$

Now Dakota Corp.'s tax liability will be:

Tax liability = $0.21 \times \$25,240,000 = \$5,300,400$

b. What are Dakota's average and marginal tax rates on taxable income?

Dakota Corp.'s average tax rate is:

Average tax rate = \$5,300,400/\$25,240,000 = 21.00%

Finally, if Dakota Corp earned \$1 more of taxable income, it would pay 21 cents (based on its tax rate of 21 percent) more in taxes. Thus, the marginal tax rate is 21 percent.

LG2-5 2-24 **Statement of Cash Flows** Use the balance sheet and income statement below to construct a statement of cash flows for Clancy's Dog Biscuit Corporation.

		Dolo	Clancy's Dog Biscuit Corporation		
		Бага	nce Sheet as of December 31, 2024 and 2023 (in millions of dollars)		
	2024	2023	(III IIIIIIOIIS OF GONALS)	2024	2023
Assets			Liabilities and Equity		
Current assets:			Current liabilities:		
Cash and marketable			Accrued wages and		
securities	\$ 5	\$ 5	taxes	\$ 10	\$ 6
Accounts receivable	20	19	Accounts payable	16	15
Inventory	36 \$ 61	29 \$ 53	Notes payable N	14	13
Total	\$ 61	\$ 53	Total	\$ 40	\$ 34
Fixed assets:			Long-term debt:	\$ 57	\$ 53
Gross plant and			C		
equipment	\$106	\$ 88			
Less: Accumulated			Stockholders' equity:		
depreciation	15	<u>11</u>	Preferred stock (2 million shares)	\$ 2	\$ 2
Net plant and			Common stock and		
equipment	\$ 91	\$ 77	paid-in surplus	11	11
Other long-term			(5 million shares)		
assets	15	<u>15</u>	Retained earnings	57	<u>45</u>
Total	\$106	\$ 92	Total	\$ 70	\$ 58
Total assets	<u>\$167</u>	<u>\$145</u>	Total liabilities and equity	<u>\$167</u>	<u>\$145</u>

Clancy's Dog Biscuit Corporation Income Statement for Years Ending December 31, 2024 and 2023 (in millions of dollars)

	2024	2023
Net sales	\$ 76	\$ 80
Less: Cost of goods sold	<u>38</u>	<u>35</u>
Gross profits	\$ 38	\$ 45
Less: Other operating expenses	<u>6</u>	5
Earnings before interest, taxes, depreciation, and		
amortization (EBITDA)	\$ 32	\$ 40

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Chapter 2 - Reviewing Financial Statements

Less: Depreciation	4	4	
Earnings before interest and taxes (EBIT)	\$ 28	\$ 36	
Less: Interest	5	5	
Earnings before taxes (EBT)	\$ 23	\$ 31	
Less: Taxes	<u> </u>	<u>7</u>	
Net income	<u>\$18</u>	<u>\$24</u>	
Less: Preferred stock dividends	<u>\$ 1</u>	<u>\$ 1</u>	
Net income available to common stockholders	\$17	\$23	
Less: Common stock dividends	_5	5	
Addition to retained earnings	\$12	\$18	
Per (common) share data:	Φ2.00	Φ4.20	
Earnings per share (EPS)	\$3.00	\$4.20	
Dividends per share (DPS)	\$1.00	\$1.00	
Book value per share (BVPS)	\$13.60	\$11.20	
Market value (price) per share (MVPS)	\$14.25	\$14.60	

SOLUTION: Statement of Cash Flows for Year Ending December 31, 2024

	ows for Year Ending December 31, 2024 (in millions of dollars)	
	<u>2024</u>	
A. Cash flows from operating activities		
Net income	\$18	
Additions (sources of cash):		
Depreciation	4	
Increase accrued wages and taxes	TIPETANA CON 4	
Increase in accounts payable	TBEXAM.COM 1	
Subtractions (uses of cash):		
Increase in accounts receivable	-1	
Increase in inventory	<u>-7</u>	
Net cash flow from operating activities:	\$19	
B. Cash flows from investing activities		
Subtractions:		
Increase fixed assets	-\$18	
Increase in other long-term assets	0	
Net cash flow from investing activities:	-\$18	
C. Cash flows from financing activities		
Additions:		
Increase in notes payable	\$ 1	
Increase in long-term debt	4	
Increase in common and preferred stock	0	
Subtractions:		
Preferred stock dividends	-1	
Common stock dividends	<u>5</u>	
Net cash flow from financing activities:	- \$1	
D. Net change in cash and marketable secur	<u>-\$ 0</u>	

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2-25 **Statement of Cash Flows** Chris' Outdoor Furniture, Inc., has net cash flows from operating activities for the last year of \$340 million. The income statement shows that net income is \$315 million and depreciation expense is \$46 million. During the year, the change in inventory on the balance sheet was \$38 million, change in accrued wages and taxes was \$15 million and change in accounts payable was \$20 million. At the beginning of the year the balance of accounts receivable was \$50 million. Calculate the end-of-year balance for accounts receivable.

A. Cash flows from operating activities	(in millions)
Net income	\$315
Additions (sources of cash):	
Depreciation	46
Increase accrued wages and taxes	15
Increase in accounts payable	20
Subtractions (uses of cash):	
Increase in accounts receivable	$-18 \ (=\$340 - \$315 - \$46 - \$15 - \$20 + \$38)$
Increase in inventory	38
Net cash flow from operating activities:	\$340

End-of-year balance for accounts receivable = \$50m. + \$18m. = \$68m.

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2-26 **Statement of Cash Flows** Dogs 4 U Corporation has net cash flow from financing activities for the last year of \$34 million. The company paid \$178 million in dividends last year. During the year, the change in notes payable on the balance sheet was \$39 million, and change in common and preferred stock was \$0. The end-of-year balance for long-term debt was \$315 million. Calculate the beginning-of-year balance for long-term debt.

C. Cash flows from financing activities	(in millions)
Additions:	
Increase in notes payable	\$ 39
Increase in long-term debt	173 (=\$34 + \$178 - \$39)
Increase in common and preferred stock	0
Subtractions:	
Stock dividends	<u>-178</u>
Net cash flow from financing activities:	\$34

Beginning-of-year balance for long-term debt = \$315m. - \$173m = \$142m.

2-27 **Free Cash Flow** The income statement for Duffy's Pest Control shows that depreciation expense was \$197 million, EBIT was \$440 million, and the tax rate was 21 percent. At the beginning of the year, the balance of gross fixed assets was \$1,562 million and net operating working capital was \$417 million. At the end of the year, gross fixed assets was \$1,803 million. Duffy's free cash flow for the year was \$424 million. Calculate the end-of-year balance for net operating working capital.

Duffy's Pest Control's operating cash flow was:

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OCF = EBIT(1 - \text{Tax rate}) + \text{Depreciation}
= (\$440\text{m}.(1 - 0.21) + \$197\text{m}.) = \$544.6\text{m}.
```

Duffy's Pest Control's free cash flow was:

FCF = Operating cash flow – Investment in operating capital \$424m. = \$544.6m. – Investment in operating capital => Investment in operating capital = \$544.6m. – \$424m. = \$120.6m.

Accordingly, investment in operating capital was:

```
IOC = \DeltaGross fixed assets + \DeltaNet operating working capital $120.6m. = ($1,803m. - $1,562m.) + (Ending net operating working capital - $417m.) => Ending net operating working capital = $120.6m. - ($1,803m. - $1,562m.) + $417m. = $296.6m.
```

2-28 **Free Cash Flow** The income statement for Egyptian Noise Blasters shows that depreciation expense is \$85 million and NOPAT is \$246 million. At the end of the year, the balance of gross fixed assets was \$655 million. The change in net operating working capital during the year was \$73 million. Egyptian's free cash flow for the year was \$190 million. Calculate the beginning-of-year balance for gross fixed assets.

```
Egyptian Noise Blasters' operating cash flow was:
                                     OCF = NOPAT + Depreciation =
\bigcirc
                                           = (\$246m. + \$85m.) = \$331m.
                Egyptian Noise Blasters' free cash flow was:
                                     FCF = Operating cash flow – Investment in operating capital
Σ
                                     $190m. = $331m. – Investment in operating capital
                                     = > Investment in operating capital = $331m. - $190m. = $141m.
                Accordingly, investment in operating capital was:
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                                     IOC = \Delta Gross fixed assets + \Delta Net operating working capital
                                     141m. = (5655m. - Beginning of year gross fixed assets) + 73m.
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                        => Beginning of year gross fixed assets = $655m. - $141m. + $73m. = $587m.
```

2-29 **Statement of Retained Earnings** Thelma and Louie, Inc., started the year with a balance of retained earnings of \$543 million and ended the year with retained earnings of \$589 million. The company paid dividends of \$35 million to the preferred stockholders and \$88 million to common stockholders. Calculate Thelma and Louie's net income for the year.

Statement of Retained Earnings (in millions of dollars)

	(in initions of donars)	
Starting balance of retained earnings	\$543	
Plus: Net income	$169 \ \ (= \$589 + \$123 - \$543)$	
Less: Cash dividends paid		
Preferred stock	\$35	
Common stock	88	
Total cash dividends paid	<u>123</u>	
Ending balance of retained earnings	<u>\$589</u>	

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LG2-1 2-30 **Statement of Retained Earnings** Jamaica Tours, Inc., started the year with a balance of retained earnings of \$1,780 million. The company reported net income for the year of \$284 million and paid dividends of \$17 million to the preferred stockholders and \$59 million to common stockholders. Calculate Jamaica Tour's end-of-year balance in retained earnings.

Statement of Retained Earnings

	(in millions of o	<u>lollars)</u>	
Starting balance of retained earnings		\$1,780	
Plus: Net income for this year		284	
Less: Cash dividends paid			
Preferred stock	\$17		
Common stock	<u>59</u>		
Total cash dividends paid		<u>76</u>	
Ending balance of retained earnings		<u>\$1,988</u>	

2-31 **Spreadsheet Problem: Income Statement** Consider a firm with an EBITDA of \$13,00,000 and an EBIT of \$10,500,000. The firm finances its assets with \$50,000,000 debt (costing 6.5 percent) and 10,000,000 shares of stock selling at \$10.00 per share. The firm is considering increasing its debt by \$25,000,000, using the proceeds to buy back shares of stock. The firm's tax rate is 21 percent. The change in capital structure will have no effect on the operations of the firm. Thus, EBIT will remain at \$10,500,000. Calculate the change in the firm's EPS from this change in capital structure.

With \$13,000,000 of EBITDA, the firm may deduct up to \$3,900,000 (\$13,000,000 \times 30 percent) of interest expense for tax purposes. Thus, given the current capital structure, the firm may deduct the full \$3,250,000 (\$50,000,000 \times 0.065) of its interest expense for tax purposes. With the proposed change in capital structure, the firm may deduct only \$3,900,000 of its \$4,875,000 interest expense (\$75,000,000 \times 0.065) for tax purposes. Thus,

```
Taxable income = EBIT – Allowable interest deduction
= $10,500,000 - $3,900,000 = $6,600,000
```

```
Tax liability = 0.21 \times \text{Taxable} income
= 0.21 \times \$6,600,000 = \$1,386,000
```

Number of shares of stock that can be repurchased with \$25,000,000:

25,000,000/10 = 2,500,000

=> number of shares of stock outstanding after refinancing = 10,000,000 - 2,500,000 = 7,500,000

The EPS before and after this change in capital structure is illustrated below:

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Chapter 2 - Reviewing Financial Statements

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1	Solution	Before capital structure	Before capital structure change After capital structure change				
2	EBIT		\$10,500,000				
3	Less: Interest	\$50,000,000 x 0.065 =	3,250,000		\$75,000,000 x 0.065 =	4,875,000	
4	EBT		7,250,000			5,625,000	
5	Less: Taxes (21%)		1,522,500			1,386,000	
6	Net income		\$5,727,500			\$4,239,000	
7	Divide by # of shares		10,000,000			7,500,000	
8	EPS		\$0.57275			\$0.56520	
9							
10		Note: for tax purposes, can only deduct \$3,900,00 (=\$13,000,000 x 30%) in After change					

The change in capital structure decreases the stockholders EPS by \$0.12245. While interest on debt is tax deductible up to 30 percent of EBITDA, in this case the change in the capital structure causes the firm to hit the tax-deductible cap. The tax benefits of additional debt do not apply once the firm hits the cap, causing debt to no longer be an attractive option from stockholders' viewpoint.

2-32 **Spreadsheet Problem: Statement of Cash Flows** Use the balance sheet and income statement below to construct a statement of cash flows for Valium's Medical Supply Corporation.

			alium's Medical Supply Corporation e Sheet as of December 31, 2024 and 2023 (in thousands of dollars)			
	2024	2023	TBEXAM.COM	2	024	2023
Assets			Liabilities and Equity			
Current assets:			Current liabilities:			
Cash and marketable			Accrued wages and			
securities	\$ 74 \$	5 73	taxes	\$	58	\$ 45
Accounts receivable	199	189	Accounts payable		159	145
Inventory	322	291	Notes payable		131	131
Total	\$ 595 \$	5 553	Total	\$	348	\$ 321
Fixed assets:			Long-term debt:	\$	565	\$549
Gross plant and						
equipment	\$1,084	\$ 886				
Less: Accumulated			Stockholders' equity:			
depreciation	153	116	Preferred stock (6 thousand shares)	\$	6	\$ 6
Net plant and			Common stock and			
equipment	\$ 931 \$	770	paid-in surplus		120	120
Other long-term			(100 thousand shares)			
assets	130	130	Retained earnings		617	457
Total	\$1,061	\$ 900	Total	\$	743	\$ 583
Total assets	<u>\$1,656</u>	\$1,45 <u>3</u>	Total liabilities and equity	<u>\$1</u>	<u>,656</u>	<u>\$1,453</u>

Valium's Medical Supply Corporation Income Statement for Years Ending December 31, 2024 and 2023 (in thousands of dollars)

2024 2023

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Chapter 2 - Reviewing Financial Statements

Net sales	\$ 888	\$ 798	
Less: Cost of goods sold	<u>387</u>	<u>350</u>	
Gross profits	\$ 501	\$ 448	
Less: Other operating expenses	<u>48</u>	<u>42</u>	
Earnings before interest, taxes, depreciation, and			
amortization (EBITDA)	\$ 453	\$ 406	
Less: Depreciation and amortization	37	35	
Earnings before interest and taxes (EBIT)	\$ 416	\$ 371	
Less: Interest	<u>46</u>	<u>40</u>	
Earnings before taxes (EBT)	\$ 370	\$ 331	
Less: Taxes	<u>78</u>	<u>70</u>	
Net income	<u>\$ 292</u>	<u>\$ 261</u>	
Less: Preferred stock dividends	<u>\$ 6</u>	<u>\$ 6</u>	
Net income available to common stockholders	\$ 286	\$ 255	
Less: Common stock dividends	<u>126</u>	<u>126</u>	
Addition to retained earnings	\$ 160	\$ 129	
Per (common) share data:			
Earnings per share (EPS)	\$2.86	\$2.55	
Dividends per share (DPS)	\$1.26	\$1.26	
Book value per share (BVPS)	\$7.37	\$5.77	
Market value (price) per share (MVPS)	\$8.40	\$6.25	

SOLUTION:

Statement of Cash Flows for Year Ending December 31, 2024

(in millions of dollars)

A. Cash flows from operating activities

Net income	\$292
Additions (sources of cash):	
Depreciation and amortization	37
Increase in accrued wages and taxes	13
Increase in accounts payable	14
Subtractions (uses of cash):	
Increase in accounts receivable	-10
Increase in inventory	<u>-31</u>

Net cash flow from operating activities: \$315

B. Cash flows from investing activities

Subtractions:

Increase in fixed assets	(\$198)
Increase in other long-term assets	<u>0</u>
Net cash flow from investing activities:	(\$198)

C. Cash flows from financing activities

Additions:

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Increase in notes payable	\$0
Increase in long-term debt	16
Increase in common and preferred stock	0
Subtractions:	
Preferred stock dividends	-6
Common stock dividends	<u>-126</u>
Net cash flow from financing activities:	(\$116)

D. Net change in cash and marketable securities \$1

advanced 2-33 **Income Statement** Listed below is the income statement for Tom and Sue Travels, Inc. problems

LG2-1

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Tom and Sue Trav Income Statement for (in millions of do	r Year End
Net sales	\$16.500
Less: Cost of goods sold	<u>7.100</u>
Gross profits	9.400
Less: Other operating expenses	3.200
Earnings before interest, taxes, depreciat amortization (EBITDA)	cion, and 6.200
Less: Depreciation	2.900
Earnings before interest and taxes (EBIT	3.300
Less: Interest	0.950
Earnings before taxes (EBT)	2.350
Less: Taxes	0.495
Net income	\$ 1.855

The CEO of Tom and Sue's wants the company to earn a net income of \$2.250 million. Cost of goods sold is expected to be 60 percent of net sales, depreciation and other operating expenses are not expected to change, interest expense is expected to increase to \$1.050 million, and the firm's tax rate will be 21 percent. Calculate the net sales needed to produce net income of \$2.250 million.

 Tom and Sue Tra Income Statement f (in millions of dol	or Year E	
Net sales	Step 5.	\$24.995
Less: Cost of goods sold	Step 6.	14.997
Gross profits	Step 4.	9.998
Less: Other operating expenses		3.200
Earnings before interest, taxes, depreciation	n, and	
amortization (EBITDA)	Step 3.	6.798
Less: Depreciation	•	2.900
Earnings before interest and taxes (EBIT)	Step 2.	3.898

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Less: Interest	1.050
Earnings before taxes (EBT)	Step 1. 3.214
Less: Taxes	
Net income	<u>\$ 2.250</u>

Step 1. EBT (1-t) = Net income = \$2.250m = EBT (1-0.21) => EBT = \$2.250m./(1-0.21) = \$2.848m.

- LG2-1 2-34 **Income Statement** You have been given the following information for PattyCake's Athletic Wear Corp. for the year:
 - a. Net sales = \$38,250,000.
 - b. Cost of goods sold = \$22,070,000.
 - c. Other operating expenses = \$5,300,000.
 - d. Addition to retained earnings = \$2,195,500.
 - e. Dividends paid to preferred and common stockholders = \$1,912,000.
 - f. Interest expense = \$1,785,000.
 - g. The firm's tax rate is 21 percent.

Next year:

TBEXAM.COM

- h. net sales are expected to increase by \$9.75 million.
- i. Cost of goods sold is expected to be 60 percent of net sales.
- j. Depreciation and other operating expenses are expected to be the same.
- k. Interest expense is expected to be \$2,004,367.
- 1. The tax rate is expected to be 21 percent of EBT.
- m. Dividends paid to preferred and common stockholders will not change.

Calculate the addition to retained earnings expected.

Income Statement for Current Year End

Net sales		\$38,250,000
Less: Cost of goods sold		22,070,000
Gross profits		16,180,000
Less: Other operating expenses		5,300,000
Earnings before interest, taxes, depreciation, a	nd	
amortization (EBITDA)		10,880,000
Less: Depreciation	\$10,880,000 - \$6,984,367	3,895,633
Earnings before interest and taxes (EBIT)	\$5,199,367 + \$1,785,000	6,984,367
Less: Interest		1,785,000
Earnings before taxes (EBT)	\$4,107,500 / (1 – 0.21)	5,199,367
Less: Taxes		
Net income		<u>\$4,107,500</u>

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Step 2. EBIT = EBT + Interest = 2.848m. + 1.050m. = 3.898m.

Step 3. EBITDA = EBIT + Depreciation = \$3.898m. + \$2.900m. = \$6.798m

Step 4. Gross profits = EBITDA + Other operating expenses = \$6.798m. + \$3.200m. = \$9.998m

Step 4. Net sales = Gross profits/(1 - Cost of goods sold percent) = \$9.998m./(1 - 0.6) = \$24.995m.

Step 5. Cost of goods sold = Net sales – Gross profits = 24.995m. – 9.998 = 14.997m.

LG2-5

⋈

Less: Preferred and common stock dividends Addition to retained earnings \$1,912,000 \$2,195,500

Income Statement for Next Year End

Net sales (all credit)	\$38,250,000 + \$9,750,000	\$48,000,000
Less: Cost of goods sold	$0.6 \times \$48,000,000$	28,800,000
Gross profits		19,200,000
Less: Other operating expens	ses	5,300,000
Earnings before interest, taxe	es, depreciation, and	
amortization (EBITDA)		13,900,000
Less: Depreciation		3,895,633
Earnings before interest and	taxes (EBIT)	10,004,367
Less: Interest		2,004,367
Earnings before taxes (EBT)	(8,000,000
Less: Taxes (21%)		1,680,000
Net income		<u>\$6,320,000</u>
Less: Preferred and common	stock dividends	\$1,912,000
Addition to retained earning	S	\$4,408,000

2-35 **Spreadsheet Problem: Free Cash Flow** Rebecky's Flowers 4U, Inc., had free cash flows during 2024 of \$43 million, NOPAT of \$85 million, and depreciation of \$14 million. Using this information, fill in the blanks on Rebecky's balance sheet below.

Rebecky's operating cash flow for 2024 was:

```
OCF = NOPAT + Depreciation = (\$85m. + \$14m.) = \$99m.
```

Rebecky's free cash flow was:

FCF = Operating cash flow – Investment in operating capital

\$43m. = \$99m. – Investment in operating capital

So, Investment in operating capital = \$99m. - \$43m. = \$56m.

 $IOC = \Delta Gross$ fixed assets + ΔNet operating working capital

 $56m. = (533m. - 5300m.) + \Delta Net operating working capital$

 $=> \Delta \text{Net operating working capital} = \$56\text{m.} - (\$333\text{m.} - \$300\text{m.}) = \$23\text{m.}$

 Δ Net operating working capital = \$23m. = Δ Current assets – Δ Current liabilities

 $23m. = (221m. - 190m.) - \Delta Current liabilities$

 $=> \Delta Current liabilities = (\$221m. - \$190m.) - \$23m. = \$8m.$

=> 2024 Current liabilities = \$110m. + \$8m. = \$118m.

and 2024 Current liabilities = Accrued wages and taxes + Accounts payable + Notes payable

\$118m. = \$17m. + Accounts payable + \$45m.

=> Accounts payable = \$118m. - \$17m. - \$45m. = \$56m.

=> Long-term debt = \$550m. - \$118m. - \$237m. = \$195m.

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		Balan	Rebecky's Flowers 4U, Inc. ce Sheet as of December 31, 2024 and 2023 (in millions of dollars)		
Assets	<u>20214</u>	<u>2023</u>	Liabilities and Equity	<u>2024</u>	<u>2023</u>
Current assets: Cash and marketable			Current liabilities: Accrued wages and		
securities	\$ 28	\$ 25	taxes	\$ 17	\$ 15
Accounts receivable	75	65	Accounts payable	56	50
Inventory	118	100	Notes payable	45	<u>45</u>
Total	\$221	\$190	Total	\$118	\$110
Fixed assets: Gross plant and			Long-term debt:	\$195	\$190
equipment	\$333	\$300			
Less: Accumulated	Ψυυυ	Ψ300	Stockholders' equity:		
depreciation Net plant and	54	40	Preferred stock (5 million shares) Common stock and	\$ 5	\$ 5
equipment Other long-term	\$279	\$260	paid-in surplus (20 million shares)	40	40
assets	50	50	Retained earnings	192	155
Total	\$329	\$310	Total	\$237	\$200
Total assets	<u>\$550</u>	\$500	Total liabilities and equity	\$550	<u>\$500</u>

4	Α		В		С	D E	F	G	Н
1			Re	be	ky's Fl	owers 4U, Inc.			
2	Ba	lance	e Shee	t as	of De	cember 31, 2024 and 2023			
3				(in i	million	s of dollars)			
4			2024		2023		2024	2023	
5	Assets					Liabilities and Equity			
6									
7	Current assets:					Current liabilities			
8	Cash and marketable securities	\$	28	\$	25	Accrued wages and taxes	\$ 17	\$ 15	
9	Accounts receivable		75		65	Accounts payable	\$ 56	50	=F11-F10-F8
10	Inventory		118		100	Notes payable	45	45	
11	Total	\$	221	\$	190	Total	\$ 118	\$110	=G11+F27
12						Long-term debt:	\$ 195	\$190	=F20-F19-F11
13	Fixed assets:								
14	Gross plant and equipment	\$	333	\$	300	Stockholders' equity:			
15	Less: Accumulated depreciation		54		40	Preferred stock (5 million shares)	\$ 5	\$ 5	
16	Net plant and equipment	\$	279	\$	260	Common stock and paid-in surplus	40	40	
17	Other long-term assets		50		50	(20 million shares)			
18	Total	\$	329	\$	310	Retained earnings	192	155	
19						Total	\$ 237	\$ 200	
20	Total assets	\$	550	\$	500	Total liabilities and equity	\$ <u>550</u>	\$500	
21									
22									
23				No	tes for	calculating cell F11:			
24					OCF =	NOPAT + Depreciation = (\$85m. + \$14m) =	99		
25						IOC = OCF - FCF = \$99-\$43 =	56		
26					Chng I	Net OWC = IOC - Chg GFA = 56 - (333-300) =	23		
27					Chg	CL = Chg CA - Chg NOWC = (221-190) - 23 =	8		

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2-36 **Spreadsheet Problem: Free Cash Flow** Vinny's Overhead Construction had free cash flow of \$25.4 million. The change in gross fixed assets on Vinny's balance sheet was \$7.0 million and the change in net operating working capital was \$8.4 million. Using this information, fill in the blanks on Vinny's income statement below.

```
IOC = \DeltaGross fixed assets + \DeltaNet operating working capital

=> IOC = $7.0 million + $8.4 million = $15.4 million

FCF = Operating cash flow - Investment in operating capital

=> $25.4 million = OCF - $15.4 million

OCF = $25.4 million + $15.4 million = $40.8 million

OCF = EBIT(1 - Tax rate) + Depreciation

Using the numbers below: $40.8 million = EBIT(1 - 0.21) + $10.2 million

=> EBIT = ($40.8 million - $10.2 million)/(1 - 0.21) = $38.73 million

Net sales ($66.00 + $116.10) = $182.10

Earnings before interest and taxes (EBIT) ($38.73 + $10.20) = $48.93

Less: Other operating expenses = $66.00 - $48.93 = $17.07

Less: Interest ($38.73 - $35.00) = $3.73
```

Earnings before taxes (*EBT*) 27.65/(1 - 0.21) = 35.00 Less: Taxes (21% from above) (35.00 - 27.65) = 7.35

\angle	A	В	С	D
1	Vinny's Overhead Construction, Corp.			
2	Income Statement for Year Ending December 31, 2024			
3	(in millions of dollars)	Step #		
4	Net sales	1	\$ 182.10	=C5+C6
5	Less: Cost of goods sold		116.10	
6	Gross profits		\$ 66.00	
7	Less: Other operating expenses	7	\$ 17.07	=C6-C8
8	Earnings before interest, taxes, depreciation, and amortization (EBITDA)	6	\$ 48.93	=C10+C9
9	Less: Depreciation		<u>10.20</u>	
10	Earnings before interest and taxes (EBIT)	2	\$ 38.73	=(C18-C9)/(1-0.21)
11	Less: Interest	5	\$ 3.73	=C10-C12
12	Earnings before taxes (EBT)	3	\$ 35.00	=C14/(1-0.21)
13	Less: Taxes (21% from above)	4	\$ 7.35	=C12-C14
14	Net income		\$ 27.65	
15				
16	For	Step # 2:		
17	IOC = Chg GFA + Chg OWC = 7	.0 + 8.4 =	15.4	
18	OCF = FCF - IOC = 25.	4 - 15.4 =	40.8	

Integrated Mini-Case: Working with Financial Statements

Shown below are partial financial statements for Garners' Platoon Mental Health Care, Inc. Fill in the blanks on the four financial statements.

Garners' Platoon Mental Health Care, Inc.

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Balance Sheet as of December 31, 2024 and 2023 (in millions of dollars)

			(in millions of dollars)		
	2024	<u>2023</u>		2024	2023
Assets	· <u></u>		Liabilities and Equity		
Current assets:			Current liabilities:		
Cash and marketable			Accrued wages and		
securities	\$ 421	\$	taxes	\$ 316	\$ 242
Accounts receivable		1,020	Accounts payable	867	791
Inventory	1,760	<u>1,581</u>	Notes payable		714
Total	\$3,290	\$	Total	\$2,055	\$1,747
Fixed assets:			Long-term debt:	\$3,090	\$
Gross plant and			•		
equipment	\$	\$4,743			
Less: Accumulated			Stockholders' equity:		
depreciation	840	640	Preferred stock (30 million shares)	\$ 60	\$ 60
Net plant and			Common stock and		
equipment	\$4,972	\$	paid-in surplus	637	
Other long-term assets		790	(200 million shares)		
Total	\$5,864	\$4,893	Retained earnings	3,312	2,440
			Total	\$4,009	\$3,137
Total assets	\$	\$7,889			
			Total liabilities and equity	\$9,154	\$7,889
			• •		·

Garners' Platoon Mental Health Care, Inc.
Income Statement for Years Ending December 31, 2024 and 2023
(in millions of dollars)

(1)	n minions of dona	·0]	
	2024	2023	
Net sales	\$4,980	\$	
Less: Cost of goods sold		2,035	
Gross profits	\$2,734	\$2,313	
Less: Other operating expenses	125	100	
Earnings before interest, taxes, depreciation, and			
amortization (EBITDA)	2,609	2,213	
Less: Depreciation	200	<u>191</u>	
Earnings before interest and taxes (EBIT)	\$2,409	\$	
Less: Interest (21 percent)		<u>285</u>	
Earnings before taxes (EBT)	\$2,094	\$1,737	
Less: Taxes			
Net income	<u>\$1,654</u>	<u>\$1,372</u>	
Less: Preferred stock dividends	\$ 60	\$	
Net income available to common stockholders	\$1,594	\$1,312	
Less: Common stock dividends	722	722	
Addition to retained earnings	\$ 872	\$	
C			
Per (common) share data:			
Earnings per share (EPS)	\$	\$	
Dividends per share (DPS)	\$	\$	
Book value per share (BVPS)	\$	\$	
Market value (price) per share (MVPS)	\$26.850	\$22.500	
'L' 'L' '			

Garners' Platoon Mental Health Care, Inc.

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Statement of Cash Flows for Year Ending December 31, 2024 (in millions of dollars)
A. Cash flows from operating activities
Net income \$
Additions (sources of cash):
Depreciation
Increase in accrued wages and taxes
Increase in accounts payable
Subtractions (uses of cash):
Increase in accounts receivable
Increase in inventory
Net cash flow from operating activities:
B. Cash flows from investing activities
Subtractions:
Increase in fixed assets \$
Increase in other long-term assets
Net cash flow from investing activities:
C. Cash flows from financing activities Additions: Increase in notes payable Increase in long-term debt Increase in common and preferred stock Subtractions: Dividends Net cash flow from financing activities: D. Net change in cash and marketable securities \$ 26
Garners' Platoon Mental Health Care, Inc. Statement of Retained Earnings as of December 31, 2024
(in millions of dollars)
Balance of retained earnings, December 31, 2023 \$2,440
Plus: Net income for 2024
Less: Cash dividends paid
Preferred stock \$
Common stock
Total cash dividends paid
•
Balance of retained earnings, December 31, 2024 \$
SOLUTION:
Garners' Platoon Mental Health Care, Inc.

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Balance Sheet as of December 31, 2024 and 2023

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			(in millions of dollars)		
Assets	2024	<u>2023</u>	Liabilities and Equity	<u>2024</u>	<u>2023</u>
Current assets:			Current liabilities:		
Cash and marketable			Accrued wages and		
securities	\$ 421	\$_395	taxes	\$ 316	\$ 242
Accounts receivable	1,109	1,020	Accounts payable	867	791
Inventory	1,760	<u>1,581</u>	Notes payable	872	714
Total	\$3,290	\$ <u>2,996</u>	Total	\$2,055	\$1,747
Fixed assets:			Long-term debt:	\$3,090	\$ <u>3,005</u>
Gross plant and					
equipment	\$ <u>5,812</u>	\$4,743			
Less: Accumulated			Stockholders' equity:		
depreciation	840	<u>640</u>	Preferred stock (25 million shares)	\$ 60	\$ 60
Net plant and			Common stock and		
equipment	\$4,972	\$4,103	paid-in surplus	637	637
Other long-term assets	<u>892</u>	<u>790</u>	(200 million shares)		
Total	\$5,864	\$4,893	Retained earnings	3,312	2,440
			Total	\$4,009	\$3,137
Total assets	\$ <u>9,154</u>	<u>\$7,889</u>	Total liabilities and equity	\$9,154	\$7,889
		Garners'	Platoon Mental Health Care, Inc.		
	Incon		or Years Ending December 31, 2024 an	d 2023	
-			(in millions of dollars)		
			<u>2024</u> <u>2023</u>		
Net sales			2024 2023 \$4,980 \$4.348		
Less: Cost of goods sol	ld		2024 2023 \$4,980 \$4,348 2,246 2,035		
Less: Cost of goods sol Gross profits			2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313		
Less: Cost of goods sol Gross profits Less: Other operating e	expenses	1	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100		
Less: Cost of goods sol Gross profits Less: Other operating & Earnings before interes	expenses st, taxes, o	depreciation, and	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d		
Less: Cost of goods sol Gross profits Less: Other operating & Earnings before interes amortization (EB	expenses st, taxes, o	depreciation, and	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213		
Less: Cost of goods sol Gross profits Less: Other operating e Earnings before interes amortization (EB Less: Depreciation	expenses st, taxes, (BITDA)	•	2024 \$4,980 \$2,246 \$2,734 \$2,313 \$125 \$2,609 \$2,609 \$2,213 \$200 \$2,213		
Less: Cost of goods sol Gross profits Less: Other operating e Earnings before interes amortization (EB Less: Depreciation Earnings before interes	expenses st, taxes, (BITDA)	•	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022		
Less: Cost of goods sol Gross profits Less: Other operating e Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest	expenses st, taxes, o BITDA) st and tax	•	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285		
Less: Cost of goods sol Gross profits Less: Other operating & Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest Earnings before taxes (expenses st, taxes, of taxes, of taxes, of taxes and tax (EBT)	•	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737		
Less: Cost of goods sol Gross profits Less: Other operating e Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest	expenses st, taxes, of taxes, of taxes, of taxes and tax (EBT)	•	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285		
Less: Cost of goods sol Gross profits Less: Other operating e Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest Earnings before taxes (Less: Taxes (21 percen Net income	expenses st, taxes, of BITDA) st and tax (EBT) at)	•	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737 440 365 \$1,654 \$1,372		
Less: Cost of goods sol Gross profits Less: Other operating & Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest Earnings before taxes (Less: Taxes (21 percen Net income	expenses st, taxes, of BITDA) st and tax (EBT) at)	es (EBIT)	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737 440 365 \$1,654 \$1,372 \$60 \$60		
Less: Cost of goods sol Gross profits Less: Other operating of Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest Earnings before taxes (Less: Taxes (21 percen Net income	expenses st, taxes, of BITDA) st and tax (EBT) at)	es (EBIT)	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737 440 365 \$1,654 \$1,372 \$60 \$1,594		
Less: Cost of goods sol Gross profits Less: Other operating & Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest Earnings before taxes (Less: Taxes (21 percen Net income	expenses st, taxes, of BITDA) st and tax (EBT) at) lividends o commo	es (EBIT)	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737 440 365 \$1,654 \$1,372 \$60 \$60		
Less: Cost of goods sol Gross profits Less: Other operating of Earnings before interess amortization (EB Less: Depreciation Earnings before interess Less: Interest Earnings before taxes (Less: Taxes (21 percent) Net income	expenses st, taxes, of BITDA) st and tax (EBT) at) lividends o commo lividends urnings	es (EBIT)	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737 440 365 \$1,654 \$1,372 \$60 \$1,594 722 722		
Less: Cost of goods sol Gross profits Less: Other operating e Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest Earnings before taxes (Less: Taxes (21 percen Net income Less: Preferred stock d Net income available to Less: Common stock d Addition to retained ea	expenses st, taxes, of BITDA) st and tax (EBT) at) lividends o commo lividends arnings	es (EBIT)	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737 440 365 \$1,654 \$1,372 \$60 \$1,312 722 722 \$872 \$590		
Less: Cost of goods sol Gross profits Less: Other operating e Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest Earnings before taxes (Less: Taxes (21 percen Net income Less: Preferred stock d Net income available to Less: Common stock d Addition to retained ea Per (common) share da Earnings per share (I	expenses st, taxes, of BITDA) st and tax (EBT) dividends of commo dividends arnings ata: EPS)	es (EBIT)	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737 440 365 \$1,654 \$1,372 \$60 \$1,312 722 722 \$872 \$590		
Less: Cost of goods sol Gross profits Less: Other operating e Earnings before interes amortization (EB Less: Depreciation Earnings before interes Less: Interest Earnings before taxes (Less: Taxes (21 percen Net income Less: Preferred stock d Net income available to Less: Common stock d Addition to retained ea	expenses st, taxes, of SITDA) st and tax (EBT) at) lividends of commo lividends arnings ata: EPS) (DPS)	es (EBIT) on stockholders	2024 2023 \$4,980 \$4,348 2,246 2,035 \$2,734 \$2,313 125 100 d 2,609 2,213 200 191 \$2,409 \$2,022 315 285 \$2,094 \$1,737 440 365 \$1,654 \$1,372 \$60 \$1,312 722 722 \$872 \$590		

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A. Cash flows from operating activities Net income Additions (sources of cash): Depreciation Increase in accrued wages and taxes Increase in accounts payable Subtractions (uses of cash): Increase in accounts receivable Increase in inventory Net cash flow from operating activities: \$1,654 200 200 74 75 89 Increase in accounts receivable Increase in inventory Net cash flow from operating activities: \$1,736	
Net income Additions (sources of cash): Depreciation Increase in accrued wages and taxes Increase in accounts payable Subtractions (uses of cash): Increase in accounts receivable Increase in inventory -89 Increase in inventory	
Additions (sources of cash): Depreciation Increase in accrued wages and taxes Increase in accounts payable Subtractions (uses of cash): Increase in accounts receivable Increase in inventory -89 Increase in inventory	
Increase in accrued wages and taxes Increase in accounts payable Subtractions (uses of cash): Increase in accounts receivable Increase in inventory -89 Increase in inventory	
Increase in accounts payable Subtractions (uses of cash): Increase in accounts receivable Increase in inventory -89 -179	
Subtractions (uses of cash): Increase in accounts receivable Increase in inventory -89 Increase in inventory	
Subtractions (uses of cash): Increase in accounts receivable Increase in inventory -89 -179	
Increase in inventory -179	
Net cash flow from operating activities:	
11ct cash now from operating activities.	
B. Cash flows from investing activities	
Subtractions:	
Increase in gross fixed assets \$-1,069	
Increase in other long-term assets	
Net cash flow from investing activities: \$-1,171	
C. Cash flows from financing activities	
Additions:	
Increase in notes payable Increase in long term debt TBEXAM . COM . 25	
increase in long-term debt	
Increase in common and preferred stock 0	
Subtractions:	
Dividends -782	
Net cash flow from financing activities: \$ -539	
D. Net change in cash and marketable securities <u>\$26</u>	
Garners' Platoon Mental Health Care, Inc.	
Statement of Retained Earnings as of December 31, 2024	4
(in millions of dollars)	
Balance of retained earnings, December 31, 2023 \$2,440	
Plus: Net income for 2024 1,654	
Less: Cash dividends paid	
Preferred stock \$ 60	
Common stock 722	
Total cash dividends paid \$ 782	
Balance of retained earnings, December 31, 2024 \$3,312	

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