# Test Bank for M Finance 2nd Edition Millon Adair Nofsinger 00780348179780078034817 

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Chapter 02 - Reviewing Financial Statements

## Chapter 02 <br> Reviewing Financial Statements

## Multiple Choice Questions

1. Which financial statement reports a firm's assets, liabilities, and equity at a particular point in time?
A. Balance Sheet
B. Income Statement
C. Statement of Retained Earnings
D. Statement of Cash Flows
2. Which financial 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?
A. Balance Sheet
B. Income Statement
C. Statement of Retained Earnings
D. Statement of Cash Flows
3. Which financial statement reports the amounts of cash that the firm generated and distributed during a particular time period?
A. Balance Sheet
B. Income Statement
C. Statement of Retained Earnings
D. Statement of Cash Flows
4. Which financial statement reconciles net income earned during a given period and any cash dividends paid within that period using the change in retained earnings between the beginning and end of the period?
A. Balance Sheet
B. Income Statement
C. Statement of Retained Earnings
D. Statement of Cash Flows
5. On which of the four major financial statements would you find the common stock and paid-in surplus?
A. Balance Sheet
B. Income Statement
C. Statement of Cash Flows
D. Statement of Retained Earnings
6. On which of the four major financial statements would you find the increase in inventory? A. Balance Sheet
B. Income Statement
C. Statement of Cash Flows
D. Statement of Retained Earnings
7. On which of the four major financial statements would you find net plant and equipment?
A. Balance Sheet
B. Income Statement
C. Statement of Cash Flows
D. Statement of Retained Earnings
8. For which of the following would one expect the book value of the asset to differ widely from its market value?
A. Cash
B. Accounts receivable
C. Inventory
D. Fixed assets
9. Common stockholders' equity divided by number of shares of common stock outstanding is the formula for calculating
A. Earnings per share (EPS) B.

Dividends per share (DPS) C.
Book value per share (BVPS)
D. Market value per share (MVPS)
10. This is the amount of additional taxes a firm must pay out for every additional dollar of taxable income it earns.
A. Average tax rate
B. Marginal tax rate
C. Progressive tax system
D. Earnings before tax
11. An equity-financed firm will
A. pay more in income taxes than a debt-financed firm.
B. pay less in income taxes than a debt-financed firm.
C. pay the same in income taxes as a debt-finance firm.
D. not pay any income taxes.
12. This is cash flow available for payments to stockholders and debt holders of a firm after the firm has made investments in assets necessary to sustain the ongoing operations of the firm.
A. Net income available to common stockholders
B. Cash flow from operations
C. Net cash flow
D. Free cash flow
13. Which of the following activities result in an increase in a firm's cash?
A. Decrease fixed assets
B. Decrease accounts payable
C. Pay dividends
D. Repurchase of common stock
14. These are cash inflows and outflows associated with buying and selling of fixed or other long-term assets.
A. Cash flows from operations
B. Cash flows from investing activities C.

Cash flows from financing activities D.
Net change in cash and cash equivalents
15. If a company reports a large amount of net income on its income statement during a year, the firm will have
A. positive cash flow.
B. negative cash flow.
C. zero cash flow.
D. Any of these scenarios are possible.
16. Free cash flow is defined as
A. Cash flows available for payments to stockholders of a firm after the firm has made payments to all others will claims against it.
B. Cash flows available for payments to stockholders and debt holders of a firm after the firm has made payments necessary to vendors.
C. Cash flows available for payments to stockholders and debt holders of a firm after the firm has made investments in assets necessary to sustain the ongoing operations of the firm.
D. Cash flows available for payments to stockholders and debt holders of a firm that would be tax-free to the recipients.
17. The Sarbanes-Oxley Act requires public companies to ensure that these individuals have considerable experience applying generally accepted accounting principles (GAAP) for financial statements.
A. External auditors
B. Internal auditors
C. Chief Financial Officers
D. Corporate boards' audit committees
18. Balance Sheet You are evaluating the balance sheet for Campus Corporation. From the balance sheet you find the following balances: Cash and marketable securities $=\$ 400,000$, Accounts receivable $=\$ 200,000$, Inventory $=\$ 100,000$, Accrued wages and taxes $=\$ 10,000$, Accounts payable $=\$ 300,000$, and Notes payable $=\$ 600,000$. What is Campus's net working capital?
A. $-\$ 210,000$
B. $\$ 700,000$
C. \$910,000
D. $\$ 1,610,000$
19. Balance Sheet Jack and Jill Corporation's year-end 2009 balance sheet lists current assets of $\$ 250,000$, fixed assets of $\$ 800,000$, current liabilities of $\$ 195,000$, and long-term debt of $\$ 300,000$. What is Jack and Jill's total stockholders' equity?
A. \$495,000
B. $\$ 555,000$
C. $\$ 1,050,000$
D. There is not enough information to calculate total stockholder's equity.
20. Income Statement Bullseye, Inc.'s 2010 income statement lists the following income and expenses: $\mathrm{EBIT}=\$ 900,000$, Interest expense $=\$ 85,000$, and Net income $=\$ 570,000$. What is the 2010 Taxes reported on the income statement?
A. $\$ 245,000$
B. $\$ 330,000$
C. $\$ 815,000$
D. There is not enough information to calculate 2010 Taxes.
21. Income Statement Barnyard, Inc.'s 2010 income statement lists the following income and expenses: EBIT $=\$ 500,000$, Interest expense $=\$ 45,000$, and Taxes $=\$ 152,000$. Barnyard's has no preferred stock outstanding and 200,000 shares of common stock outstanding. What are its 2010 earnings per share?
A. $\$ 2.50$
B. $\$ 2.275$
C. $\$ 1.74$
D. $\$ 1.515$
22. Corporate Taxes Eccentricity, Inc. had $\$ 300,000$ in 2010 taxable income. Using the tax schedule from Table 2-3, what is the company's 2010 income taxes, average tax rate, and marginal tax rate, respectively?

| Table 2.3 | Corporate Tax Rates as of 2012 |  |
| :--- | ---: | ---: |
| Taxable Income | Pay this Amount <br> on Base Income | Plus this Percentage <br> on Anything Over <br> the Base |
| $\$ 0-\$ 50,000$ | $\$ 0$ | $15 \%$ |
| $\$ 50,001-\$ 75,000$ | $\$ 7,500$ | $25 \%$ |
| $\$ 75,001-\$ 100,000$ | $\$ 13,750$ | $34 \%$ |
| $\$ 100,001-\$ 335,000$ | $\$ 22,250$ | $39 \%$ |
| $\$ 335,001-\$ 10,000,000$ | $\$ 113,900$ | $34 \%$ |
| $\$ 10,000,001-\$ 15,000,000$ | $\$ 3,400,000$ | $35 \%$ |
| $\$ 15,000,001-\$ 18,333,333$ | $\$ 5,150,000$ | $38 \%$ |
| Over $\$ 18,333,333$ | $\$ 6,416,667$ | $35 \%$ |

A. $\$ 22,250,7.42 \%, 39 \%$ B. $\$ 78,000,26.00 \%, 39 \%$ C.
$\$ 100,250,33.42 \%, 39 \%$ D.
\$139,250, 46.42\%, 39\%
23. Corporate Taxes Swimmy, Inc. had $\$ 400,000$ in 2010 taxable income. Using the tax schedule from Table 2-3, what is the company's 2010 income taxes, average tax rate, and marginal tax rate, respectively?

| Table 2.3 | Corporate Tax Rates as of 2012 |  |
| :--- | ---: | ---: |
| Taxable Income | Pay this Amount <br> on Base Income | Plus this Percentage <br> on Anything Over <br> the Base |
| $\$ 0-\$ 50,000$ | $\$ 0$ | $15 \%$ |
| $\$ 50,001-\$ 75,000$ | $\$ 7,500$ | $25 \%$ |
| $\$ 75,001-\$ 100,000$ | $\$ 13,750$ | $34 \%$ |
| $\$ 100,001-\$ 335,000$ | $\$ 22,250$ | $39 \%$ |
| $\$ 335,001-\$ 10,000,000$ | $\$ 113,900$ | $34 \%$ |
| $\$ 10,000,001-\$ 15,000,000$ | $\$ 3,400,000$ | $35 \%$ |
| $\$ 15,000,001-\$ 18,333,333$ | $\$ 5,150,000$ | $38 \%$ |
| Over $\$ 18,333,333$ | $\$ 6,416,667$ | $35 \%$ |

A. $\$ 22,100,5.53 \%, 34 \%$
B. $\$ 113,900,28.48 \%, 34 \%$
C. $\$ 136,000,34.00 \%, 34 \%$
D. $\$ 136,000,39.00 \%, 34 \%$
24. Corporate Taxes Scuba, Inc. is concerned about the taxes paid by the company in 2010. In addition to $\$ 5$ million of taxable income, the firm received $\$ 80,000$ of interest on stateissued bonds and $\$ 500,000$ of dividends on common stock it owns in Boating Adventures, Inc. What is Scuba's tax liability, average tax rate, and marginal tax rate, respectively?
A. $\$ 1,637,100,31.79 \%, 34 \%$
B. $\$ 1,751,000,34.00 \%, 34 \%$
C. $\$ 1,870,000,34.00 \%, 34 \%$
D. $\$ 1,983,900,36.07 \%, 34 \%$
25. Statement of Cash Flows Paige's Properties Inc. reported 2008 net income of $\$ 5$ million and depreciation of $\$ 1,500,000$. The top part Paige's Properties, Inc.'s 2007 and 2008 balance sheets is listed below (in millions of dollars).

| Current assets: | 2007 | 2008 | Current liabilities: | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cash and marketable securities | \$ 10 | \$ 20 | Accrued wages and taxes | \$ 5 | \$ 11 |
| Accounts receivable | 20 | 34 | Accounts payable | 25 | 29 |
| Inventory | 10 | 11 | Notes payable | 10 | 25 |
| Total | \$ 40 | \$ 65 | Total | \$ 40 | \$ 65 |

What is the 2008 net cash flow from operating activities for Paige's Properties, Inc.?
A. $-\$ 13,500,000$
B. $\$ 1,500,000$
C. $\$ 5,000,000$
D. $\$ 6,500,000$
26. Statement of Cash Flows In 2008, Upper Crust had cash flows from investing activities of $(\$ 250,000)$ and cash flows from financing activities of $(\$ 150,000)$. The balance in the firm's cash account was $\$ 90,000$ at the beginning of 2008 and $\$ 105,000$ at the end of the year. What was Upper Crust's cash flow from operations for 2008 ?
A. $\$ 15,000$
B. $\$ 105,000$
C. $\$ 400,000$
D. $\$ 415,000$
27. Statement of Cash Flows In 2010, Lower Case Productions had cash flows from investing activities of $+\$ 50,000$ and cash flows from financing activities of $+\$ 100,000$. The balance in the firm's cash account was $\$ 80,000$ at the beginning of 2010 and $\$ 65,000$ at the end of the year. What was Lower Case's cash flow from operations for 2010?
A. $\$-15,000$
B. $\$-150,000$
C. $\$-165,000$
D. $\$ 65,000$
28. Free Cash Flow You are considering an investment in Crew Cut, Inc. and want to evaluate the firm's free cash flow. From the income statement, you see that Crew Cut earned an EBIT of $\$ 23$ million, paid taxes of $\$ 4$ million, and its depreciation expense was $\$ 8$ million. Crew Cut's gross fixed assets increased by $\$ 10$ million from 2007 to 2008. The firm's current assets increased by $\$ 6$ million and spontaneous current liabilities increased by $\$ 4$ million. What is Crew Cut's operating cash flow, investment in operating capital and free cash flow for 2008, respectively in millions?
A. $\$ 23, \$ 10, \$ 13$
B. $\$ 23, \$ 12, \$ 11$
C. $\$ 27, \$ 10, \$ 17$
D. $\$ 27, \$ 12, \$ 15$
29. Free Cash Flow You are considering an investment in Cruise, Inc. and want to evaluate the firm's free cash flow. From the income statement, you see that Cruise earned an EBIT of $\$ 202$ million, paid taxes of $\$ 51$ million, and its depreciation expense was $\$ 75$ million. Cruise's gross fixed assets increased by $\$ 70$ million from 2007 to 2008. The firm's current assets decreased by $\$ 10$ million and spontaneous current liabilities increased by $\$ 6$ million. What is Cruise's operating cash flow, investment in operating capital, and free cash flow for 2008, respectively, in millions?
A. $\$ 202, \$ 70, \$ 130$
B. $\$ 226, \$ 70, \$ 156$
C. $\$ 226, \$ 54, \$ 172$
D. $\$ 226, \$ 74, \$ 152$
30. Free Cash Flow Catering Corp. reported free cash flows for 2008 of $\$ 8$ million and investment in operating capital of $\$ 2$ million. Catering listed $\$ 1$ million in depreciation expense and $\$ 2$ million in taxes on its 2008 income statement. What was Catering's 2008 EBIT?
A. $\$ 7$ million
B. $\$ 10$ million
C. $\$ 11$ million
D. $\$ 13$ million
31. Statement of Retained Earnings TriCycle, Corp. began the year 2008 with $\$ 25$ million in retained earnings. The firm earned net income of $\$ 7$ million in 2008 and paid $\$ 1$ million to its preferred stockholders and $\$ 3$ million to its common stockholders. What is the year-end 2008 balance in retained earnings for TriCycle?
A. $\$ 25$ million
B. $\$ 28$ million
C. $\$ 32$ million
D. $\$ 36$ million
32. Statement of Retained Earnings Night Scapes, Corp. began the year 2008 with $\$ 10$ million in retained earnings. The firm suffered a net loss of $\$ 2$ million in 2008 and yet paid $\$ 2$ million to its preferred stockholders and $\$ 1$ million to its common stockholders. What is the year-end 2008 balance in retained earnings for Night Scapes?
A. $\$ 5$ million
B. $\$ 8$ million
C. $\$ 9$ million
D. $\$ 15$ million
33. Statement of Retained Earnings Use the following information to find dividends paid to common stockholders during 2008.

| Balance of Retained Earnings, December 31, 2007 | $\$ 52 \mathrm{~m}$. |
| :--- | ---: |
| Plus: Net Income for 2008 |  |
| Less: Cash Dividends Paid |  |
| Preferred Stock |  |
| Common Stock | $\$ 7 \mathrm{~m}$. |
| Total Cash Dividends Paid | $\underline{10 \mathrm{~m}}$. |

A. $\$ 3$ million
B. $\$ 4$ million
C. $\$ 10$ million
D. $\$ 17$ million
34. Balance Sheet Harvey's Hamburger Stand has total assets of $\$ 3$ million of which $\$ 1$ million are current assets. Cash makes up 20 percent of the current assets and accounts receivable makes up another 5 percent of current assets. Harvey's gross plant and equipment has a book value of $\$ 1.5$ million and other long-term assets have a book value of $\$ 1$ million. Using this information, what is the balance of inventory and the balance of depreciation on Harvey's Hamburger Stand's balance sheet?
A. \$250,000, \$500,000
B. $\$ 250,000, \$ 1$ million
C. $\$ 750,000, \$ 500,000$
D. $\$ 750,000, \$ 1$ million
35. Balance Sheet School Books, Inc. has total assets of $\$ 18$ million of which $\$ 6$ million are current assets. Cash makes up 10 percent of the current assets and accounts receivable makes up another 40 percent of current assets. School Books' gross plant and equipment has an original cost of $\$ 13$ million and other long-term assets have a cost value of $\$ 2$ million. Using this information, what are the balance of inventory and the balance of depreciation on School Books' balance sheet?
A. $\$ 3$ million, $\$ 2$ million B.
$\$ 3$ million, $\$ 3$ million C.
$\$ 2.4$ million, $\$ 2$ million D .
$\$ 2.4$ million, $\$ 3$ million
36. Balance Sheet Ted's Taco Shop has total assets of $\$ 5$ million. Forty percent of these assets are financed with debt of which $\$ 400,000$ is current liabilities. The firm has no preferred stock but the balance in common stock and paid-in surplus is $\$ 1$ million. Using this information what is the balance for long-term debt and retained earnings on Ted's Taco Shop's balance sheet?
A. $\$ 400,000, \$ 1$ million
B. $\$ 1.6$ million, $\$ 2$ million
C. $\$ 1.6$ million, $\$ 3$ million
D. $\$ 2$ million, $\$ 3$ million
37. Balance Sheet Hair Etc. has total assets of $\$ 15$ million. Twenty percent of these assets are financed with debt of which $\$ 1$ million is current liabilities. The firm has no preferred stock but the balance in common stock and paid-in surplus is $\$ 8$ million. Using this information what is the balance for long-term debt and retained earnings on Hair Etc.'s balance sheet?
A. $\$ 1$ million, $\$ 8$ million
B. $\$ 2$ million, $\$ 4$ million
C. $\$ 2$ million, $\$ 8$ million
D. $\$ 3$ million, $\$ 4$ million
38. Market Value versus Book Value Acme Bricks balance sheet lists net fixed assets as $\$ 40$ million. The fixed assets could currently be sold for $\$ 50$ million. Acme's current balance sheet shows current liabilities of $\$ 15$ million and net working capital of $\$ 12$ million. If all the current accounts were liquidated today, the company would receive $\$ 77$ million cash after paying $\$ 15$ million in liabilities. What is the book value of Acme's assets today? What is the market value of these assets?
A. $\$ 12$ million, $\$ 77$ million
B. $\$ 27$ million, $\$ 92$ million
C. $\$ 40$ million, $\$ 50$ million
D. $\$ 67$ million, $\$ 142$ million
39. Market Value versus Book Value Glo's Glasses balance sheet lists net fixed assets as $\$ 20$ million. The fixed assets could currently be sold for $\$ 25$ million. Glo's current balance sheet shows current liabilities of $\$ 7$ million and net working capital of $\$ 3$ million. If all the current accounts were liquidated today, the company would receive $\$ 9$ million cash after paying $\$ 7$ million in liabilities. What is the book value of Glo's assets today? What is the market value of these assets?
A. $\$ 10$ million, $\$ 16$ million
B. $\$ 10$ million, $\$ 35$ million
C. $\$ 30$ million, $\$ 35$ million
D. $\$ 30$ million, $\$ 41$ million
40. Market Value versus Book Value Rupert's Rims balance sheet lists net fixed assets as $\$ 15$ million. The fixed assets could currently be sold for $\$ 17$ million. Rupert's current balance sheet shows current liabilities of $\$ 5$ million and net working capital of $\$ 3$ million. If all the current accounts were liquidated today, the company would receive $\$ 6$ million cash after paying $\$ 5$ million in liabilities. What is the book value of Rupert's assets today? What is the market value of these assets?
A. $\$ 8$ million, $\$ 23$ million
B. $\$ 23$ million, $\$ 25$ million
C. $\$ 23$ million, $\$ 28$ million
D. $\$ 31$ million, $\$ 28$ million
41. Debt versus Equity Financing You are considering a stock investment in one of two firms (AllDebt, Inc. and AllEquity, Inc.), both of which operate in the same industry and have identical operating income of $\$ 600,000$. AllDebt, Inc. finances its $\$ 1.2$ million in assets with $\$ 1$ million in debt (on which it pays 10 percent interest annually) and $\$ .2$ million in equity. AllEquity, Inc. finances its $\$ 1.2$ million in assets with no debt and $\$ 1.2$ million in equity. Both firms pay a tax rate of 30 percent on their taxable income. What are the asset funders' (the debt holders and stockholders') resulting return on assets for the two firms?
A. $29.17 \%$, and $35 \%$, respectively
B. $37.5 \%$, and $35 \%$, respectively
C. $37.5 \%$, and $37.5 \%$, respectively
D. $50 \%$, and $50 \%$, respectively
42. Debt versus Equity Financing You are considering a stock investment in one of two firms (AllDebt, Inc. and AllEquity, Inc.), both of which operate in the same industry and have identical operating income of $\$ 3$ million. AllDebt, Inc. finances its $\$ 6$ million in assets with $\$ 5$ million in debt (on which it pays 5 percent interest annually) and $\$ 1$ million in equity. AllEquity, Inc. finances its $\$ 6$ million in assets with no debt and $\$ 6$ million in equity. Both firms pay a tax rate of 40 percent on their taxable income. What are the asset funders' (the debt holders and stockholders') resulting return on assets for the two firms?
A. $27.5 \%$, and $30 \%$, respectively
B. $31.67 \%$, and $30 \%$, respectively
C. $33 \%$, and $30 \%$, respectively D.
$50 \%$, and $50 \%$, respectively
43. Debt versus Equity Financing You are considering a stock investment in one of two firms (AllDebt, Inc. and AllEquity, Inc.), both of which operate in the same industry and have identical operating income of $\$ 400,000$. AllDebt, Inc. finances its $\$ 800,000$ in assets with $\$ 600,000$ in debt (on which it pays 5 percent interest annually) and $\$ 200,000$ in equity. AllEquity, Inc. finances its $\$ 800,000$ in assets with no debt and $\$ 800,000$ in equity. Both firms pay a tax rate of 30 percent on their taxable income. What are the asset funders' (the debt holders and stockholders') resulting return on assets for the two firms?
A. $32.375 \%$, and $35.00 \%$,respectively
B. $36.125 \%$, and $35.00 \%$, respectively
C. $46.25 \%$, and $50 \%$, respectively
D. $50 \%$, and $50 \%$, respectively
44. Income Statement You have been given the following information for Fina's Furniture Corp.:
net sales $=\$ 25,500,000$;
cost of goods sold $=\$ 10,250,000$; addition
to retained earnings $=\$ 305,000$;
dividends paid to preferred and common stockholders $=\$ 500,000$;
interest expense $=\$ 2,000,000$.
The firm's tax rate is 30 percent. What is the depreciation expense for Fina's Furniture Corp?
A. $\$ 12,100,000$
B. $\$ 12,400,000$
C. $\$ 14,100,000$
D. $\$ 14,400,000$
45. Income Statement You have been given the following information for Romeo's Rockers Corp.:
net sales = \$5,200,000;
cost of goods sold $=\$ 2,100,000$;
addition to retained earnings $=\$ 1,000,000$;
dividends paid to preferred and common stockholders $=\$ 400,000 ;$
interest expense $=\$ 200,000$.
The firm's tax rate is 30 percent. What is the depreciation expense for Romeo's Rockers Corp.?
A. $\$ 900,000$
B. $\$ 1,100,000$
C. $\$ 1,500,000$
D. $\$ 1,600,000$
46. Income Statement You have been given the following information for Nicole's Neckties Corp.:
net sales $=\$ 2,500,000$;
cost of goods sold $=\$ 1,300,000$; addition
to retained earnings $=\$ 30,000$;
dividends paid to preferred and common stockholders $=\$ 300,000$;
interest expense $=\$ 50,000$.
The firm's tax rate is 40 percent. What is the depreciation expense for Nicole's Neckties Corp.?
A. $\$ 550,000$
B. $\$ 600,000$
C. $\$ 650,000$
D. $\$ 820,000$
47. Income Statement You have been given the following information for Sherry's Sandwich Corp.:
net sales $=\$ 300,000$;
gross profit = \$100,000;
addition to retained earnings $=\$ 30,000$;
dividends paid to preferred and common stockholders $=\$ 8,500$;
depreciation expense $=\$ 25,000$.
The firm's tax rate is 30 percent. What are the cost of goods sold and the interest expense for Sherry's Sandwich Corp.?
A. $\$ 20,000$, and $\$ 200,000$, respectively
B. $\$ 100,000$, and $\$ 20,000$, respectively
C. $\$ 200,000$, and $\$ 20,000$, respectively
D. $\$ 200,000$, and $\$ 36,500$, respectively
48. Income Statement You have been given the following information for Kaye's Krumpet Corp.:
net sales $=\$ 150,000$;
gross profit = $\$ 100,000$;
addition to retained earnings $=\$ 20,000$;
dividends paid to preferred and common stockholders $=\$ 8,000$;
depreciation expense $=\$ 50,000$.
The firm's tax rate is 30 percent. What are the cost of goods sold and the interest expense for Kaye's Krumpet Corp.?
A. $\$ 10,000$, and $\$ 50,000$, respectively
B. $\$ 50,000$, and $\$ 10,000$, respectively
C. $\$ 50,000$, and $\$ 22,000$, respectively
D. $\$ 62,000$, and $\$ 10,000$, respectively
49. Income Statement You have been given the following information for Ross's Rocket Corp.:
net sales $=\$ 1,000,000$;
gross profit = \$400,000;
addition to retained earnings $=\$ 60,000$;
dividends paid to preferred and common stockholders $=\$ 90,000$;
depreciation expense $=\$ 50,000$.
The firm's tax rate is 40 percent. What are the cost of goods sold and the interest expense for Ross's Rocket Corp.?
A. $\$ 100,000$, and $\$ 600,000$, respectively
B. $\$ 600,000$, and $\$ 100,000$, respectively
C. $\$ 600,000$, and $\$ 200,000$, respectively
D. $\$ 700,000$, and $\$ 100,000$, respectively

| Table 2.3 | Corporate Tax Rates as of 2012 |  |
| :--- | ---: | :---: |
| Taxable Income | Pay this Amount <br> on Base Income | Plus this Percentage <br> on Anything Over <br> the Base |
| $\$ 0-\$ 50,000$ | $\$ 0$ | $15 \%$ |
| $\$ 50,001-\$ 75,000$ | $\$ 7,500$ | $25 \%$ |
| $\$ 75,001-\$ 100,000$ | $\$ 13,750$ | $34 \%$ |
| $\$ 100,001-\$ 335,000$ | $\$ 22,250$ | $39 \%$ |
| $\$ 335,001-\$ 10,000,000$ | $\$ 113,900$ | $34 \%$ |
| $\$ 10,000,001-\$ 15,000,000$ | $\$ 3,400,000$ | $35 \%$ |
| $\$ 15,000,001-\$ 18,333,333$ | $\$ 5,150,000$ | $38 \%$ |
| Over $\$ 18,333,333$ | $\$ 6,416,667$ | $35 \%$ |

50. Corporate Taxes The Carolina Corporation had a 2010 taxable income of \$3,000,000 from operations after all operating costs but before
(1) interest charges of $\$ 500,000$,
(2) dividends received of $\$ 75,000$,
(3) dividends paid of $\$ 1,000,000$, and
(4) income taxes.

Using the tax schedule in Table 2.3, what is Carolina's income tax liability?
What are Carolina's average and marginal tax rates on taxable income from operations?
A. $\$ 857,650,28.59 \%, 34 \%$, respectively
B. $\$ 875,500,29.18 \%, 34 \%$, respectively
C. $\$ 875,500,34.00 \%, 34 \%$, respectively
D. $\$ 1,020,000,34.00 \%, 34 \%$, respectively
51. Corporate Taxes The Ohio Corporation had a 2010 taxable income of \$50,000,000 from operations after all operating costs but before
(1) interest charges of $\$ 500,000$,
(2) dividends received of $\$ 45,000$,
(3) dividends paid of $\$ 10,000,000$, and
(4) income taxes.

Using the tax schedule in Table 2.3, what is Ohio's income tax liability?
What are Ohio's average and marginal tax rates on taxable income from operations?
A. $\$ 6,416,667,12.83 \%, 35 \%$, respectively
B. $\$ 13,829,725,27.66 \%, 35 \%$, respectively
C. $\$ 17,329,725,34.66 \%, 35 \%$, respectively
D. $\$ 17,340,750,34.68 \%, 35 \%$, respectively
52. Corporate Taxes The Sasnak Corporation had a 2010 taxable income of \$4,450,000 from operations after all operating costs but before
(1) interest charges of $\$ 750,000$,
(2) dividends received of $\$ 900,000$,
(3) dividends paid of $\$ 500,000$, and
(4) income taxes.

Using the tax schedule in Table 2.3, what is Sasnak's income tax liability?
What are Sasnak's average and marginal tax rates on taxable income from operations?
A. $\$ 1,349,800,30.33 \%, 34 \%$, respectively
B. $\$ 1,349,800,34.00 \%, 34 \%$, respectively
C. $\$ 1,564,000,34.00 \%, 34 \%$, respectively
D. $\$ 1,564,000,35.15 \%, 34 \%$, respectively
53. Corporate Taxes The AOK Corporation had a 2008 taxable income of $\$ 2,200,000$ from operations after all operating costs but before
(1) interest charges of $\$ 90,000$,
(2) dividends received of $\$ 750,000$,
(3) dividends paid of $\$ 80,000$, and
(4) income taxes.

Using the tax schedule in Table 2.3, what is AOK's income tax liability?
What are AOK's average and marginal tax rates on taxable income from operations?
A. $\$ 793,900,34 \%, 34 \%$, respectively
B. $\$ 793,900,36.0864 \%, 34 \%$, respectively
C. $\$ 972,400,34 \%, 34 \%$, respectively
D. $\$ 972,400,44.2 \%, 34 \%$, respectively
54. Corporate Taxes Suppose that in addition to the $\$ 5.5$ million of taxable income from operations, Emily's Flowers, Inc. received $\$ 500,000$ of interest on state-issued bonds and $\$ 300,000$ of dividends on common stock it owns in Amy's Iris Bulbs, Inc.
Using the tax schedule in Table 2.3 what is Emily's Flowers' income tax liability?
What are Emily's Flowers' average and marginal tax rates on total taxable income?
A. $\$ 1,900,600,34 \%, 34 \%$, respectively
B. $\$ 1,972,000,34 \%, 34 \%$, respectively
C. $\$ 2,070,600,34 \%, 34 \%$, respectively
D. $\$ 2,142,000,34 \%, 34 \%$, respectively
55. Corporate Taxes Suppose that in addition to the $\$ 300,000$ of taxable income from operations, Liam's Burgers, Inc. received $\$ 25,000$ of interest on state-issued bonds and $\$ 50,000$ of dividends on common stock it owns in Sodas, Inc.
Using the tax schedule in Table 2.3 what is Liam's income tax liability?
What are Liam's average and marginal tax rates on total taxable income?
A. $\$ 106,100,33.68 \%, 39 \%$, respectively
B. $\$ 122,850,39.00 \%, 39 \%$, respectively
C. $\$ 129,500,34.53 \%, 39 \%$, respectively
D. $\$ 139,250,37.13 \%, 39 \%$, respectively
56. Statement of Cash Flows Fina's Faucets, Inc. has net cash flows from operating activities for the last year of $\$ 17$ million. The income statement shows that net income is $\$ 15$ million and depreciation expense is $\$ 6$ million. During the year, the change in inventory on the balance sheet was an increase of $\$ 4$ million, change in accrued wages and taxes was an increase of $\$ 1$ million and change in accounts payable was an increase of $\$ 1$ million. At the beginning of the year the balance of accounts receivable was $\$ 5$ million. What was the end of year balance for accounts receivable?
A. $\$ 2$ million
B. $\$ 3$ million
C. $\$ 7$ million
D. $\$ 9$ million
57. Statement of Cash Flows Zoe's Dog Biscuits, Inc. has net cash flows from operating activities for the last year of $\$ 226$ million. The income statement shows that net income is $\$ 150$ million and depreciation expense is $\$ 85$ million. During the year, the change in inventory on the balance sheet was an increase of $\$ 14$ million, change in accrued wages and taxes was an increase of $\$ 15$ million and change in accounts payable was an increase of $\$ 10$ million. At the beginning of the year the balance of accounts receivable was $\$ 45$ million. What was the end of year balance for accounts receivable?
A. $\$ 20$ million
B. $\$ 25$ million
C. $\$ 45$ million
D. $\$ 65$ million
58. Statement of Cash Flows Nickolas's Nut Farms, Inc. has net cash flows from operating activities for the last year of $\$ 25$ million. The income statement shows that net income is $\$ 15$ million and depreciation expense is $\$ 6$ million. During the year, the change in inventory on the balance sheet was a decrease of $\$ 4$ million, change in accrued wages and taxes was a decrease of $\$ 1$ million and change in accounts payable was a decrease of $\$ 1$ million. At the beginning of the year the balance of accounts receivable was $\$ 5$ million. What was the end of year balance for accounts receivable?
A. $\$ 2$ million
B. $\$ 3$ million
C. $\$ 7$ million
D. $\$ 9$ million
59. Statement of Cash Flows Crispy Corporation has net cash flow from financing activities for the last year of $\$ 20$ million. The company paid $\$ 5$ million in dividends last year. During the year, the change in notes payable on the balance sheet was an increase of $\$ 2$ million, and change in common and preferred stock was an increase of $\$ 3$ million. The end of year balance for long-term debt was $\$ 45$ million. What was their beginning of year balance for long-term debt?
A. $\$ 15$ million
B. $\$ 20$ million
C. $\$ 25$ million
D. $\$ 35$ million
60. Statement of Cash Flows Full Moon Productions Inc. has net cash flow from financing activities for the last year of $\$ 105$ million. The company paid $\$ 15$ million in dividends last year. During the year, the change in notes payable on the balance sheet was an increase of $\$ 40$ million, and change in common and preferred stock was an increase of $\$ 50$ million. The end of year balance for long-term debt was $\$ 50$ million. What was their beginning of year balance for long-term debt?
A. $\$ 5$ million
B. $\$ 20$ million
C. $\$ 30$ million
D. $\$ 35$ million
61. Statement of Cash Flows Café Creations Inc. has net cash flow from financing activities for the last year of $\$ 25$ million. The company paid $\$ 15$ million in dividends last year. During the year, the change in notes payable on the balance sheet was a decrease of $\$ 40$ million, and change in common and preferred stock was an increase of $\$ 50$ million. The end of year balance for long-term debt was $\$ 40$ million. What was their beginning of year balance for long-term debt?
A. $\$ 10$ million
B. $\$ 20$ million
C. $\$ 30$ million
D. $\$ 40$ million
62. Free Cash Flow The 2010 income statement for Pete's Pumpkins shows that depreciation expense is $\$ 250$ million, EBIT is $\$ 500$ million, EBT is $\$ 320$ million, and the tax rate is 30 percent. At the beginning of the year, the balance of gross fixed assets was $\$ 1,600$ million and net operating working capital was $\$ 640$ million. At the end of the year gross fixed assets was $\$ 2,000$ million. Pete's free cash flow for the year was $\$ 630$ million. What is their end of year balance for net operating working capital?
A. $\$ 24$ million B.
$\$ 264$ million C.
$\$ 654$ million D.
\$1,064 million
63. Free Cash Flow The 2010 income statement for Lou's Shoes shows that depreciation expense is $\$ 2$ million, EBIT is $\$ 5$ million, EBT is $\$ 3$ million, and the tax rate is 40 percent. At the beginning of the year, the balance of gross fixed assets was $\$ 16$ million and net operating working capital was $\$ 6$ million. At the end of the year gross fixed assets was $\$ 20$ million. Lou's free cash flow for the year was $\$ 4$ million. What is their end of year balance for net operating working capital?
A. $\$ 1.8$ million
B. $\$ 3.8$ million
C. $\$ 5.8$ million
D. $\$ 12.2$ million
64. Free Cash Flow The 2010 income statement for Paige's Purses shows that depreciation expense is $\$ 10$ million, EBIT is $\$ 25$ million, EBT is $\$ 15$ million, and the tax rate is 30 percent. At the beginning of the year, the balance of gross fixed assets was $\$ 80$ million and net operating working capital was $\$ 30$ million. At the end of the year gross fixed assets was $\$ 100$ million. Paige's free cash flow for the year was $\$ 20$ million. What is their end of year balance for net operating working capital?
A. $\$ 10.5$ million
B. $\$ 14$ million
C. $\$ 20.5$ million
D. $\$ 30.5$ million
65. Free Cash Flow The 2010 income statement for Betty's Barstools shows that depreciation expense is $\$ 100$ million, EBIT is $\$ 400$ million, and taxes are $\$ 120$ million. At the end of the year, the balance of gross fixed assets was $\$ 510$ million. The increase in net operating working capital during the year was $\$ 94$ million. Betty's free cash flow for the year was $\$ 625$ million. What was the beginning of year balance for gross fixed assets?
A. $\$ 359$ million
B. $\$ 380$ million
C. $\$ 849$ million
D. $\$ 1,094$ million
66. Free Cash Flow The 2010 income statement for John's Gym shows that depreciation expense is $\$ 20$ million, EBIT is $\$ 80$ million, and taxes are $\$ 24$ million. At the end of the year, the balance of gross fixed assets was $\$ 102$ million. The increase in net operating working capital during the year was $\$ 18$ million. John's free cash flow for the year was $\$ 41$ million. What was the beginning of year balance for gross fixed assets?
A. $\$ 43$ million
B. $\$ 85$ million
C. $\$ 84$ million
D. $\$ 163$ million
67. Statement of Retained Earnings Bike and Hike, Inc. started the year with a balance of retained earnings of $\$ 100$ million and ended the year with retained earnings of $\$ 128$ million. The company paid dividends of $\$ 9$ million to the preferred stock holders and $\$ 22$ million to common stock holders. What was Bike and Hike's net income for the year?
A. $\$ 28$ million
B. $\$ 31$ million
C. $\$ 59$ million
D. $\$ 128$ million
68. Statement of Retained Earnings Soccer Starz, Inc. started the year with a balance of retained earnings of $\$ 25$ million and ended the year with retained earnings of $\$ 32$ million. The company paid dividends of $\$ 2$ million to the preferred stock holders and $\$ 6$ million to common stock holders. What was Soccer Starz's net income for the year?
A. $\$ 7$ million
B. $\$ 15$ million
C. $\$ 40$ million
D. $\$ 49$ million
69. Statement of Retained Earnings Jamaican Ice Cream Corp. started the year with a balance of retained earnings of $\$ 100$ million. The company reported net income for the year of $\$ 45$ million, paid dividends of $\$ 2$ million to the preferred stock holders and $\$ 15$ million to common stock holders. What is Jamaican Ice Cream's end of year balance in retained earnings?
A. $\$ 38$ million
B. $\$ 55$ million
C. $\$ 128$ million
D. $\$ 162$ million
70. Income Statement Listed below is the 2008 income statement for Lamps, Inc.

## Lamps, Inc.

Income Statement for Year Ending December 31, 2008 (in millions of dollars)

|  | $\mathbf{2 0 0 8}$ |
| :--- | ---: |
| Net sales | $\$ 100$ |
| Less: Cost of goods sold | 80 |
| Gross profits | 20 |
| Less: Depreciation | $\frac{5}{2}$ |
| Earnings before interest and taxes (EBIT) | $\mathbf{1 5}$ |
| Less: Interest | $\mathbf{2}$ |
| Earnings before taxes (EBT) | $\mathbf{1 3}$ |
| Less: Taxes | $\underline{\$ 8}$ |
| Net income |  |

The CEO of Lamps wants the company to earn a net income of $\$ 12$ million in 2009. Cost of goods sold is expected to be 75 percent of net sales, depreciation expense is not expected to change, interest expense is expected to increase to $\$ 4$ million, and the firm's tax rate will be 40 percent. What is the net sales needed to produce net income of $\$ 12$ million? A. $\$ 29$ million
B. $\$ 112$ million
C. $\$ 116$ million
D. $\$ 124$ million
71. Income Statement You have been given the following information for Halle's Holiday Store Corp. for the year 2008:
net sales $=\$ 50,000,000$;
cost of goods sold $=\$ 35,000,000$; addition
to retained earnings $=\$ 2,000,000$;
dividends paid to preferred and common stockholders $=\$ 3,000,000$;
interest expense $=\$ 3,000,000$.
The firm's tax rate is 30 percent.
In 2009, net sales are expected to increase by $\$ 5$ million, cost of goods sold is expected to be 65 percent of net sales, expensed depreciation is expected to be the same as in 2008, interest expense is expected to be $\$ 2,500,000$, the tax rate is expected to be 30 percent of EBT, and dividends paid to preferred and common stockholders will not change. What is the addition to retained earnings expected in 2009 ?
A. $\$ 2,000,000$
B. $\$ 5,325,000$
C. $\$ 8,447,500$
D. $\$ 10,304,643$
72. Free Cash Flow Martha's Moving Van 4U, Inc. had free cash flow during 2008 of $\$ 1$ million, EBIT of $\$ 30$ million, tax expense of $\$ 8$ million, and depreciation of $\$ 4$ million. Using this information, what was Martha's Accounts Payable ending balance in 2008 ?
A. $\$ 5$ million
B. $\$ 15$ million
C. $\$ 35$ million
D. $\$ 45$ million
73. You are evaluating the balance sheet for Goodman's Bees Corporation. From the balance sheet you find the following balances: Cash and marketable securities $=\$ 200,000$, Accounts receivable $=\$ 1,100,000$, Inventory $=\$ 2,000,000$, Accrued wages and taxes $=\$ 500,000$, Accounts payable $=\$ 600,000$, and Notes payable $=\$ 100,000$. Calculate Goodman's Bees' net working capital.
A. $\$ 2,000,000$
B. $\$ 2,100,000$
C. $\$ 1,400,000$
D. $\$ 1,900,000$
74. Zoeckler Mowing \& Landscaping's year-end 2011 balance sheet lists current assets of $\$ 350,000$, fixed assets of $\$ 325,000$, current liabilities of $\$ 145,000$, and long-term debt of $\$ 185,000$. Calculate Zoeckler's total stockholders' equity.
A. $\$ 115,000$
B. $\$ 490,000$
C. $\$ 345,000$
D. $\$ 500,000$
75. Reed's Birdie Shot, Inc.'s 2011 income statement lists the following income and expenses: EBIT $=\$ 550,000$, Interest expense $=\$ 43,000$, and Net income $=\$ 300,000$. Calculate the 2011 Taxes reported on the income statement.
A. $\$ 85,000$
B. $\$ 107,000$
C. $\$ 309,000$
D. $\$ 207,000$
76. Reed's Birdie Shot, Inc.'s 2010 income statement lists the following income and expenses: EBIT $=\$ 555,000$, Interest expense $=\$ 178,000$, and Taxes $=\$ 148,000$. Reed's has no preferred stock outstanding and 100,000 shares of common stock outstanding. Calculate the 2010 earnings per share.
A. $\$ 3.49$
B. $\$ 2.29$
C. $\$ 3.14$
D. $\$ 2.79$
77. Oakdale Fashions Inc. had $\$ 255,000$ in 2011 taxable income. If the firm paid $\$ 82,100$ in taxes, what is the firm's average tax rate?
A. $34.70 \%$
B. $32.20 \%$
C. $29.90 \%$
D. $28.20 \%$
78. Hunt Taxidermy, Inc. is concerned about the taxes paid by the company in 2011. In addition to $\$ 36.5$ million of taxable income, the firm received $\$ 1,250,000$ of interest on stateissued bonds and $\$ 400,000$ of dividends on common stock it owns in Hunt Taxidermy, Inc. Calculate Hunt Taxidermy's taxable income.
A. $\$ 40,250,000$
B. $\$ 38,150,000$
C. $\$ 36,900,000$
D. $\$ 36,620,000$
79. Ramakrishnan Inc. reported 2008 net income of $\$ 20$ million and depreciation of $\$ 1,500,000$. The top part of Ramakrishnan, Inc.'s 2007 and 2008 balance sheets is listed below (in millions of dollars).


Calculate the 2008 net cash flow from operating activities for Ramakrishnan, Inc.
A. $\$ 12,500,000$
B. $\$ 10,500,000$
C. $\$ 8,500,000$
D. $\$ 7,100,000$
80. In 2011, Usher Sports Shop had cash flows from investing activities of $(\$ 2,150,000)$ and cash flows from financing activities of $(\$ 3,219,000)$. The balance in the firm's cash account was $\$ 980,000$ at the beginning of 2011 and $\$ 1,025,000$ at the end of the year. Calculate Usher Sports Shop's cash flow from operations for 2011.
A. $\$ 6,219,000$
B. $\$ 5,414,000$
C. $\$ 4,970,000$
D. $\$ 5,980,000$
81. 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 $\$ 52$ million, paid taxes of $\$ 10$ million, and its depreciation expense was $\$ 5$ million. Fields and Struthers' gross fixed assets increased by $\$ 38$ million from 2010 to 2011. The firm's current assets increased by $\$ 20$ million and spontaneous current liabilities increased by $\$ 12$ million. Calculate Fields and Struthers' operating cash flow (OCF), investment in operating capital (IOC) and free cash flow (FCF) for 2011.
A. $\mathrm{OCF}=\$ 42,000,000 ; \mathrm{IOC}=\$ 37,000,000 ; \mathrm{FCF}=\$ 5,000,000$
B. $\mathrm{OCF}=\$ 47,000,000 ; \mathrm{IOC}=\$ 37,000,000 ; \mathrm{FCF}=\$ 10,000,000$
C. $\mathrm{OCF}=\$ 42,000,000 ; \mathrm{IOC}=\$ 46,000,000 ; \mathrm{FCF}=-\$ 4,000,000$
D. $\mathrm{OCF}=\$ 47,000,000 ; \mathrm{IOC}=\$ 46,000,000 ; \mathrm{FCF}=\$ 1,000,000$
82. Tater and Pepper Corp. reported free cash flows for 2010 of $\$ 20$ million and investment in operating capital of $\$ 15$ million. Tater and Pepper listed $\$ 8$ million in depreciation expense and $\$ 12$ million in taxes on its 2010 income statement. Calculate Tater and Pepper's 2010 EBIT.
A. $\$ 49,000,000$
B. $\$ 42,000,000$
C. $\$ 39,000,000$
D. $\$ 47,000,000$
83. Mr. Husker's Tuxedos, Corp. began the year 2011 with $\$ 205$ million in retained earnings. The firm earned net income of $\$ 30$ million in 2011 and paid $\$ 5$ million to its preferred stockholders and $\$ 12$ million to its common stockholders. What is the year-end 2011 balance in retained earnings for Mr. Husker's Tuxedos?
A. $\$ 193,000,000$
B. $\$ 200,000,000$
C. $\$ 213,000,000$
D. $\$ 218,000,000$
84. Brenda's Bar and Grill has total assets of $\$ 17$ million of which $\$ 5$ million are current assets. Cash makes up 12 percent of the current assets and accounts receivable makes up another 40 percent of current assets. Brenda's gross plant and equipment has a cost value of $\$ 12$ million and other long-term assets have a cost value of $\$ 1,000,000$. Using this information, what is the balance of inventory and the balance of depreciation on Brenda's Bar and Grill's balance sheet?
A. $\$ 2.4$ million; $\$ 1$ million
B. $\$ 3.4$ million; $\$ 2$ million
C. $\$ 1.4$ million; $\$ 1$ million
D. $\$ 0.4$ million; $\$ 3$ million
85. Ed's Tobacco Shop has total assets of $\$ 100$ million. Fifty percent of these assets are financed with debt of which $\$ 37$ million is current liabilities. The firm has no preferred stock but the balance in common stock and paid-in surplus is $\$ 32$ million. Using this information what is the balance for long-term debt and retained earnings on Ed's Tobacco Shop's balance sheet?
A. $\$ 18$ million; $\$ 27$ million
B. $\$ 12$ million; $\$ 12$ million
C. $\$ 14$ million; $\$ 29$ million
D. $\$ 13$ million; $\$ 18$ million
86. Muffin's Masonry, Inc.'s balance sheet lists net fixed assets as $\$ 16$ million. The fixed assets could currently be sold for $\$ 17$ million. Muffin's current balance sheet shows current liabilities of $\$ 5.5$ million and net working capital of $\$ 6.5$ million. If all the current accounts were liquidated today, the company would receive $\$ 10.25$ million cash after paying $\$ 5.5$ million in liabilities. What is the book value of Muffin's Masonry's assets today? What is the market value of these assets?
A. Book Value: $\$ 28 \mathrm{M}$; Market Value: $\$ 32.75 \mathrm{M}$
B. Book Value: $\$ 32 \mathrm{M}$; Market Value: $\$ 42.25 \mathrm{M}$
C. Book Value: $\$ 32 \mathrm{M}$; Market Value: $\$ 32.75 \mathrm{M}$
D. Book Value: \$28M; Market Value: \$42.25M
87. You have been given the following information for Corky's Bedding Corp.:

Net sales = \$15,250,000;
Cost of goods sold $=\$ 5,750,000$;
Addition to retained earnings $=\$ 4,000,000$;
Dividends paid to preferred and common stockholders $=\$ 995,000$;
Interest expense = \$1,150,000.
The firm's tax rate is 30 percent. Calculate the depreciation expense for Corky's Bedding Corp.
A. $\$ 1,210,000$
B. $\$ 1,970,000$
C. $\$ 1,520,000$
D. $\$ 1,725,000$
88. Dogs 4 U Corporation has net cash flow from financing activities for the last year of $\$ 10$ million. The company paid $\$ 8$ million in dividends last year. During the year, the change in notes payable on the balance was $\$ 9$ million, and change in common and preferred stock was $\$ 0$ million. The end of year balance for long-term debt was $\$ 44$ million. Calculate the beginning of year balance for long-term debt.
A. $\$ 37$ million
B. $\$ 34$ million
C. $\$ 33$ million
D. $\$ 35$ million
89. The 2011 income statement for Duffy's Pest Control shows that depreciation expense is $\$ 180$ million, EBIT is $\$ 420$ million, EBT is $\$ 240$ million, and the tax rate is 30 percent. At the beginning of the year, the balance of gross fixed assets was $\$ 1,500$ million and net operating working capital was $\$ 500$ million. At the end of the year gross fixed assets was $\$ 1,803$ million. Duffy's free cash flow for the year was $\$ 425$ million. Calculate the end of year balance for net operating working capital.
A. $\$ 403$ million
B. $\$ 300$ million
C. $\$ 203$ million
D. $\$ 103$ million
90. The CEO of Tom and Sue's wants the company to earn a net income of $\$ 3.25$ million in 2010. Cost of goods sold is expected to be 60 percent of net sales, depreciation expense is $\$ 2.9$ million, interest expense is expected to increase to $\$ 1.050$ million, and the firm's tax rate will be 30 percent. Calculate the net sales needed to produce net income of $\$ 3.25$ million.
A. $\$ 26.02$ million
B. $\$ 29.36$ million
C. $\$ 21.48$ million
D. $\$ 28.25$ million
91. All of the following would be a result of changing to the MACRS method of depreciation except $\qquad$ .
A. Higher depreciation expense
B. Lower taxes in the early years of a project's life
C. Lower taxable income in the early years of a project's
life D. All of these.
92. Which of the following is NOT a source of cash?
A. The firm reduces its inventory.
B. The firm pays off some of its long-term debt.
C. The firm has positive net income.
D. The firm sells more common stock.
93. Which of the following is a use of cash?
A. The firm takes its depreciation expense.
B. The firm sells some of its fixed assets. C.

The firm issues more long-term debt.
D. The firm decreases its accrued wages and taxes.
94. Is it possible for a firm to have positive net income and yet to have cash flow problems?
A. No, this is impossible since net income increases the firm's cash.
B. Yes, this can occur when a firm is growing very rapidly.
C. Yes, this is possible if the firm window-dressed its financial statements.
D. No, this is impossible since net income and cash are highly correlated.
95. All of the following are cash flows from operations except $\qquad$ .
A. Increases or decreases in cash
B. Net Income
C. Depreciation
D. Increases or decreases in accounts payable
96. All of the following are cash flows from financing except $\mathrm{a}(\mathrm{n})$ $\qquad$ .
A. Increase in accounts payable
B. Issuing stock
C. Stock repurchases
D. Paying dividends
97. Cash flows available to pay the firm's stockholders and debt holders 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 is referred to as
A. Operating cash flow
B. Net operating working capital
C. Free cash flow
D. None of these.
98. Investment in operating capital is $\qquad$ .
A. The change in assets plus the change in current liabilities
B. The change in gross fixed assets plus depreciation
C. The change in gross fixed assets plus the change in free cash flow
D. None of these.
99. A firm had EBIT of $\$ 1,000$, paid taxes of $\$ 225$, expensed depreciation at $\$ 13$, and its gross fixed assets increased by $\$ 25$. What was the firm's operating cash flow?
A. $\$ 763$
B. $\$ 737$
C. $\$ 813$
D. $\$ 788$
100. Which of the following is an example of a capital structure?
A. $15 \%$ current assets and $85 \%$ fixed assets
B. $10 \%$ current liabilities and $90 \%$ long-term debt
C. $20 \%$ debt and $80 \%$ equity
D. None of these.
101. Lemmon Inc. lists fixed assets of $\$ 100$ on its balance sheet. The firm's fixed assets have recently been appraised at $\$ 140$. The firm's balance sheet also lists current assets at $\$ 15$. Current assets were appraised at $\$ 16.5$. Current liabilities book and market values stand at $\$ 12$ and the firm's long-term debt is $\$ 40$. Calculate the market value of the firm's stockholders' equity.
A. $\$ 156.5$
B. $\$ 112.50$
C. $\$ 104.50$
D. $\$ 144.50$
102. A firm has operating income of $\$ 1,000$, depreciation expense of $\$ 185$ and its investment in operating capital is $\$ 400$. The firm is $100 \%$ equity financed and has a $35 \%$ tax rate. What is the firm's operating cash flow?
A. $\$ 725$
B. $\$ 795$
C. $\$ 835$
D. $\$ 965$
103. All of the following are reasons that one should be cautious in interpreting financial statements except $\qquad$ .
A. Firms can take steps to over- or understate earnings at various times.
B. It is difficult to compare two firms that use different depreciation methods.
C. Financial managers have quite a bit of latitude in using accounting rules to manage their reported earnings.
D. All of these are reasons to be cautious in interpreting financial statements.
104. Which of the following statements is correct?
A. The bottom line on the statement of cash flows equals the change in the retained earnings on the balance sheet.
B. The reason the statement of cash flows is important is because cash is what pays the firm's obligations, not accounting profit.
C. If a firm has accounting profit, its cash account will always increase.
D. All of these statements are correct.
105. ABC Inc. has $\$ 100$ in cash on its balance at the end of 2009. During 2010, the firm issued $\$ 450$ in common stock, reduced its notes payable by $\$ 40$, purchased fixed assets in the amount of $\$ 750$ and had cash flows from operating activities of $\$ 315$. How much cash did ABC Inc. have on its balance sheet at the end of 2010 ?
A. $\$ 75$
B. $\$ 140$
C. $\$ 225$
D. $-\$ 25$
106. LLV Inc. originally forecasted the following financial data for next year: Sales $=\$ 1,000$, Cost of goods sold $=\$ 675$ and Interest expense $=\$ 90$. The firm believes that COGS will always be $67.5 \%$ of sales. Due to increased global demand, the firm is now projecting that sales will be $20 \%$ higher than the original forecast. What is the additional net income (as compared to the original forecast) the firm can expect assuming a $35 \%$ tax rate?
A. $\$ 59.45$
B. $\$ 195.00$
C. $\$ 42.25$
D. $\$ 74.00$
107. LLV Inc. originally forecasted the following financial data for next year: Sales $=\$ 1,000$, Cost of goods sold $=\$ 710$ and Interest expense $=\$ 95$. The firm believes that COGS will always be $71 \%$ of sales. Due to pressure from shareholders, the firm wants to achieve a net income of $\$ 150$. Assuming the interest expense will remain the same, how large must sales be to achieve this goal? Assume a $35 \%$ tax rate.
A. $\$ 1,403.82$
B. $\$ 1,3009.18$
C. $\$ 1,123.34$
D. $\$ 1,296.51$
108. A firm has sales of $\$ 690$, EBIT of $\$ 300$, depreciation of $\$ 40$ and fixed assets increased by $\$ 265$. If the firm's tax rate is $40 \%$ and there were no increases in net operating working capital, what is the firm's free cash flow?
A. $\$ 15$
B. $\$ 75$
C. $-\$ 45$
D. $-\$ 55$
109. GW Inc. had $\$ 800$ million in retained earnings at the beginning of the year. During the year, the firm paid $\$ .75$ per share dividend and generated $\$ 1.92$ earnings per share. The firm has 100 million shares outstanding. At the end of year, what was the level of retained earnings for GW?
A. $\$ 725$ million
B. $\$ 917$ million
C. $\$ 882$ million
D. $\$ 807$ million

## Essay Questions

110. LG 5 2-21 Statement of Cash Flows Use the balance sheet and income statement below to construct a statement of cash flows for Betty's Bakery Corp.

| Betty's Bakery CorporationBalance Sheet as of December 31, 2007. and 2008(in millions of dollars) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2007 | 2008 |  | 2007 | 2008 |
| Assets |  |  | Liabilities \& Equity |  |  |
| Current assets |  |  | Carrent liabilities: |  |  |
| Cash auxd marketable securities | \$ 12 | \$ 5 | Accrued wages and taxes |  |  |
| Accounts receivable | 21 | 15 | Accounts payable | 18 | 16 |
| Inventory | 25 | 30 | Notes payable | 35 | 30. |
| Total | \$ 58 | \$ 50 | Total | \$ 58 | \$50 |
| Fixed assets: |  |  | Long-term debt: | \$ 40 | \$ 45 |
| Gross plant and equipment | \$ 60 | \$ 80 | Stockholders' equity: |  |  |
| Less: Depreciation | 10 | 15 | Preferred stock (1 million shares) | \$ 1 | \$ 1 |
| Net plant and equipment | \$ 50 | \$ 65 | Common stock and paid-in sumplus | 4 | 4 |
| Other lang-term |  |  | (4 million shares) |  |  |
| bssets | 20 | 25 | Retaised eamings | 25 | 40 |
| Total | \$ 70 | \$90 | Total | \$30 | \$ 45 |
| Total assets | \$128 | \$140 | Total liabilities and equity | \$128 | \$140 |

Chapter 02 - Reviewing Financial Statements

| Betty's Bakery CorporationIncome Statement for Years Ending December 31, 2007 and 2008(in millions of dollars) |  |  |
| :---: | :---: | :---: |
|  | 2007 | 2008 |
| Net sales | \$ 33 | \$ 40.5 |
| Less: Cost of goods sold | 8 | 11 |
| Gross profits | 25 | 29.5 |
| Less: Depreciation | 2 | 2 |
| Eamings before interest and taxes (EBIT) | 23 | 27.5 |
| Less: Interest | 1 | 1.5 |
| Earnings before taxes (EBT) | 22 | 26 |
| Less: Taxes | 9 | 10 |
| Net income | \$13 | \$16. |
| Less: Preferred stock dividends | \$ 1 | \$ 1 |
| Net income available to common stockholders | \$12 | \$15 |
| Less: Common stock dividends | \$ 1 | \$ 2 |
| Addition to retained earnings | \$11 | \$13 |
| Per (common) share data: |  |  |
| Earnings per share (EPS) | \$6.75 | \$4.00 |
| Dividends per share (DPS) | \$0.25 | \$0.50 |
| Book value per share (BV) | \$22.00 | \$23.75 |
| Market value (price) per share (MV) | \$24.00 | \$24.25 |

111. When might earnings management become an ethical consideration?

## Chapter 02 - Reviewing Financial Statements

112. How do taxes influence how corporate managers' and investors' structure transactions and capitalize their companies?
113. How would you explain to a friend why market value of a firm is more important to an investor than book value of the firm?
114. What are free cash flows for a firm? What does it mean when a firm's free cash flow is negative?
115. What are the costs and benefits of holding liquid securities on a firm's balance sheet?

# Chapter 02 Reviewing Financial Statements Answer Key 

## Multiple Choice Questions

1. Which financial statement reports a firm's assets, liabilities, and equity at a particular point in time?
A. Balance Sheet
B. Income Statement
C. Statement of Retained Earnings
D. Statement of Cash Flows

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
2. Which financial 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?
A. Balance Sheet
B. Income Statement
C. Statement of Retained Earnings
D. Statement of Cash Flows

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide. Topic: Understanding Financial Statements
3. Which financial statement reports the amounts of cash that the firm generated and distributed during a particular time period?
A. Balance Sheet
B. Income Statement
C. Statement of Retained Earnings
D. Statement of Cash Flows

## AACSB: Reflective Thinking

Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
4. Which financial statement reconciles net income earned during a given period and any cash dividends paid within that period using the change in retained earnings between the beginning and end of the period?
A. Balance Sheet
B. Income Statement
C. Statement of Retained Earnings
D. Statement of Cash Flows

[^0]5. On which of the four major financial statements would you find the common stock and paid-in surplus?
A. Balance Sheet
B. Income Statement
C. Statement of Cash Flows
D. Statement of Retained Earnings

[^1]6. On which of the four major financial statements would you find the increase in inventory? A. Balance Sheet
B. Income Statement
C. Statement of Cash Flows
D. Statement of Retained Earnings

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
7. On which of the four major financial statements would you find net plant and equipment?
A. Balance Sheet
B. Income Statement
C. Statement of Cash Flows
D. Statement of Retained Earnings

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
8. For which of the following would one expect the book value of the asset to differ widely from its market value?
A. Cash
B. Accounts receivable
C. Inventory
D. Fixed assets

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-02 Differentiate between book (or accounting) value and market value.
Topic: Book vs. Market Value
9. Common stockholders' equity divided by number of shares of common stock outstanding is the formula for calculating
A. Earnings per share (EPS) B.

Dividends per share (DPS) $\mathbf{C}$.
Book value per share (BVPS) D.
Market value per share (MVPS)

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-02 Differentiate between book (or accounting) value and market value.
Topic: Book vs. Market Value
10. This is the amount of additional taxes a firm must pay out for every additional dollar of taxable income it earns.
A. Average tax rate
B. Marginal tax rate
C. Progressive tax system
D. Earnings before tax

[^2]11. An equity-financed firm will
A. pay more in income taxes than a debt-financed firm.
B. pay less in income taxes than a debt-financed firm.
C. pay the same in income taxes as a debt-finance firm.
D. not pay any income taxes.

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Topic: Taxes
12. This is cash flow available for payments to stockholders and debt holders of a firm after the firm has made investments in assets necessary to sustain the ongoing operations of the firm.
A. Net income available to common stockholders
B. Cash flow from operations
C. Net cash flow
D. Free cash flow

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
13. Which of the following activities result in an increase in a firm's
cash? A. Decrease fixed assets
B. Decrease accounts payable
C. Pay dividends
D. Repurchase of common stock

AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
14. These are cash inflows and outflows associated with buying and selling of fixed or other long-term assets.
A. Cash flows from operations
B. Cash flows from investing activities C .

Cash flows from financing activities D.
Net change in cash and cash equivalents

## AACSB: Reflective Thinking

Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
15. If a company reports a large amount of net income on its income statement during a year, the firm will have
A. positive cash flow.
B. negative cash flow.
C. zero cash flow.
D. Any of these scenarios are possible.

## AACSB: Reflective Thinking

Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
16. Free cash flow is defined as
A. Cash flows available for payments to stockholders of a firm after the firm has made payments to all others will claims against it.
B. Cash flows available for payments to stockholders and debt holders of a firm after the firm has made payments necessary to vendors.
C. Cash flows available for payments to stockholders and debt holders of a firm after the firm has made investments in assets necessary to sustain the ongoing operations of the firm. D. Cash flows available for payments to stockholders and debt holders of a firm that would be tax-free to the recipients.

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AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
```

17. The Sarbanes-Oxley Act requires public companies to ensure that these individuals have considerable experience applying generally accepted accounting principles (GAAP) for financial statements.
A. External auditors
B. Internal auditors
C. Chief Financial Officers
D. Corporate boards' audit committees

[^3]18. Balance Sheet You are evaluating the balance sheet for Campus Corporation. From the balance sheet you find the following balances: Cash and marketable securities $=\$ 400,000$, Accounts receivable $=\$ 200,000$, Inventory $=\$ 100,000$, Accrued wages and taxes $=\$ 10,000$, Accounts payable $=\$ 300,000$, and Notes payable $=\$ 600,000$. What is Campus's net working capital?
A. $-\$ 210,000$
B. $\$ 700,000$
C. \$910,000
D. $\$ 1,610,000$
net working capital = current assets - current liabilities.
Cypress's current assets $=$
Cash and marketable securities $=\$ 400,000$
Accounts receivable $=\$ 200,000$
Inventory $\quad=\$ 100,000$
Total current assets $\$ 700,000$
and current liabilities =
Accrued wages and taxes $\quad=\$ 10,000$
Accounts payable $=\$ 300,000$
Notes payable $=\underline{\$ 600,000}$
Total current liabilities $\$ 910,000$
So the firm's net working capital was -\$210,000 (\$700,000-\$910,000).

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
19. Balance Sheet Jack and Jill Corporation's year-end 2009 balance sheet lists current assets of $\$ 250,000$, fixed assets of $\$ 800,000$, current liabilities of $\$ 195,000$, and long-term debt of $\$ 300,000$. What is Jack and Jill's total stockholders' equity?
A. $\$ 495,000$
B. $\$ 555,000$
C. $\$ 1,050,000$
D. There is not enough information to calculate total stockholder's equity.

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

Assets
Current assets $\$ 250,000$
Fixed assets $\quad 800,000$

Total

Book value
Liabilities and Equity Current liabilities Long-term debt Stockholders' equity Total
20. Income Statement Bullseye, Inc.'s 2010 income statement lists the following income and expenses: $\mathrm{EBIT}=\$ 900,000$, Interest expense $=\$ 85,000$, and Net income $=\$ 570,000$. What is the 2010 Taxes reported on the income statement?
A. $\$ 245,000$
B. $\$ 330,000$
C. $\$ 815,000$
D. There is not enough information to calculate 2010 Taxes.

Using the setup of an Income Statement in Table 2.2:

| EBIT | $\$ 900,000$ |
| :--- | ---: |
| Interest expense | $\underline{-85,000}$ |
| EBT | $\underline{815,000}$ |
| Taxes | $\underline{-245,000}$ |
| Net income | $\$ 570,000$ |

[^4]21. Income Statement Barnyard, Inc.'s 2010 income statement lists the following income and expenses: EBIT $=\$ 500,000$, Interest expense $=\$ 45,000$, and Taxes $=\$ 152,000$. Barnyard's has no preferred stock outstanding and 200,000 shares of common stock outstanding. What are its 2010 earnings per share?
A. $\$ 2.50$
B. $\$ 2.275$
C. \$1.74
D. $\$ 1.515$

Using the setup of an Income Statement in Table 2.2:

| EBIT | $\$ 500,000$ |
| :--- | ---: |
| Interest expense | $\underline{-45,000}$ |
| EBT | $\underline{-155,000}$ |
| Taxes | $\underline{\mathbf{1 5}} \mathbf{~ N e t ~ i n c o m e ~}$ |

Thus,


AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
22. Corporate Taxes Eccentricity, Inc. had $\$ 300,000$ in 2010 taxable income. Using the tax schedule from Table 2-3, what is the company's 2010 income taxes, average tax rate, and marginal tax rate, respectively?

| Table 2.3 | Corporate Tax Rates as of 2012 |  |
| :--- | ---: | ---: |
| Taxable Income | Pay this Amount <br> on Base Income | Plus this Percentage <br> on Anything Over <br> the Base |
| $\$ 0-\$ 50,000$ | $\$ 0$ | $15 \%$ |
| $\$ 50,001-\$ 75,000$ | $\$ 7,500$ | $25 \%$ |
| $\$ 75,001-\$ 100,000$ | $\$ 13,750$ | $34 \%$ |
| $\$ 100,001-\$ 335,000$ | $\$ 22,250$ | $39 \%$ |
| $\$ 335,001-\$ 10,000,000$ | $\$ 113,900$ | $34 \%$ |
| $\$ 10,000,001-\$ 15,000,000$ | $\$ 3,400,000$ | $35 \%$ |
| $\$ 15,000,001-\$ 18,333,333$ | $\$ 5,150,000$ | $38 \%$ |
| Over $\$ 18,333,333$ | $\$ 6,416,667$ | $35 \%$ |

A. $\$ 22,250,7.42 \%, 39 \%$ B. \$78,000, 26.00\%, 39\% С. $\$ 100,250,33.42 \%, 39 \%$ D.
\$139,250, 46.42\%, 39\%

From Table 2.3, the $\$ 300,000$ of taxable income puts Eccentricity in the 39 percent marginal tax bracket. Thus,
Tax liability $=$ Tax on base amount + Tax rate (amount over base): $=\$ 22,250+.39(\$ 300,000$ $-\$ 100,000$ ) = \$100,250
Note that the base amount is the maximum dollar value listed in the previous tax bracket. The average tax rate for Eccentricity Inc. comes to:


$$
=33.4167 \%
$$

If Eccentricity earned $\$ 1$ more of taxable income, it would pay 39 cents (its tax rate of 39 percent) more in taxes. Thus, the firm's marginal tax rate is 39 percent.

## Chapter 02 - Reviewing Financial Statements

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions. Topic: Taxes
23. Corporate Taxes Swimmy, Inc. had $\$ 400,000$ in 2010 taxable income. Using the tax schedule from Table 2-3, what is the company's 2010 income taxes, average tax rate, and marginal tax rate, respectively?

| Table 2.3 | Corporate Tax Rates as of 2012 |  |
| :--- | ---: | ---: |
| Taxable Income | Pay this Amount <br> on Base Income | Plus this Percentage <br> on Anything Over <br> the Base |
| $\$ 0-\$ 50,000$ | $\$ 0$ | $15 \%$ |
| $\$ 50,001-\$ 75,000$ | $\$ 7,500$ | $25 \%$ |
| $\$ 75,001-\$ 100,000$ | $\$ 13,750$ | $34 \%$ |
| $\$ 100,001-\$ 335,000$ | $\$ 22,250$ | $39 \%$ |
| $\$ 335,001-\$ 10,000,000$ | $\$ 113,900$ | $34 \%$ |
| $\$ 10,000,001-\$ 15,000,000$ | $\$ 3,400,000$ | $35 \%$ |
| $\$ 15,000,001-\$ 18,333,333$ | $\$ 5,150,000$ | $38 \%$ |
| Over $\$ 18,333,333$ | $\$ 6,416,667$ | $35 \%$ |

A. $\$ 22,100,5.53 \%, 34 \%$
B. $\$ 113,900,28.48 \%, 34 \%$
C. $\$ 136,000,34.00 \%, 34 \%$
D. $\$ 136,000,39.00 \%, 34 \%$

From Table 2.3, the $\$ 400,000$ of taxable income puts Swimmy in the 34 percent marginal tax bracket. Thus, Tax liability $=$ Tax on base amount + Tax rate (amount over base): $=$ $\$ 113,900+.34(\$ 400,000-\$ 335,000)=\$ 136,000$
Note that the base amount is the maximum dollar value listed in the previous tax bracket. The average tax rate for Swimmy Inc. comes to:

Average tax rate $=\frac{\$ 136,000}{\$ 400,000}$

$$
=34 \%
$$

If Swimmy earned $\$ 1$ more of taxable income, it would pay 34 cents (its tax rate of 34 percent) more in taxes. Thus, the firm's marginal tax rate is 34 percent.

Chapter 02 - Reviewing Financial Statements

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Topic: Taxes
24. Corporate Taxes Scuba, Inc. is concerned about the taxes paid by the company in 2010. In addition to $\$ 5$ million of taxable income, the firm received $\$ 80,000$ of interest on stateissued bonds and $\$ 500,000$ of dividends on common stock it owns in Boating Adventures, Inc. What is Scuba's tax liability, average tax rate, and marginal tax rate, respectively?
A. $\$ 1,637,100,31.79 \%, 34 \%$
B. $\$ 1,751,000,34.00 \%, 34 \%$
C. $\$ 1,870,000,34.00 \%, 34 \%$
D. $\$ 1,983,900,36.07 \%, 34 \%$

In this case, interest on the state-issued bonds is not taxable and should not be included in taxable income. Further, the first 70 percent of the dividends received from Boating Adventures is not taxable. Thus, only 30 percent of the dividends received are taxed, so:
Taxable income $=\$ 5,000,000+(.3) \$ 500,000=\$ 5,150,000$
Now Scuba's tax liability will be: Tax liability $=\$ 113,900+.34(\$ 5,150,000-\$ 335,000)=$ \$1,751,000
The $\$ 500,000$ of dividend income increased Scuba's tax liability by $\$ 51,000(=(.3) x$ $\$ 500,000 \times(.34)$ ). Scuba's resulting average tax rate is now: Average tax rage $=$ $\$ 1,751,000 / \$ 5,150,000=34.00 \%$
Finally, if Scuba earned $\$ 1$ more of taxable income, it would still pay 34 cents (based upon its marginal tax rate of 34 percent) more in taxes.

[^5]25. Statement of Cash Flows Paige's Properties Inc. reported 2008 net income of $\$ 5$ million and depreciation of $\$ 1,500,000$. The top part Paige's Properties, Inc.'s 2007 and 2008 balance sheets is listed below (in millions of dollars).

| Current assets: <br> Cash and marketable <br> securities | 2007 | 2008 | Current liabilities: <br> Accrued wages and <br> taxes | 2007 | 2008 |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $\$ 10$ | $\$ 20$ | $\$ 5$ | $\$ 11$ |  |
| Accounts receivable | 20 | 34 | Accounts payable | Acous payable | $\frac{10}{\$ 40}$ |

What is the 2008 net cash flow from operating activities for Paige's Properties, Inc.?
A. $-\$ 13,500,000$
B. $\$ 1,500,000$
C. $\$ 5,000,000$
D. $\$ 6,500,000$

## Cash Flows from Operating Activities <br> Net income \$ 5,000,000 <br> Additions (sources of cash): <br> Depreciation <br> 1,500,000 <br> Increase accrued wages and taxes <br> $6,000,000$ <br> Increase in accounts payable <br> 4,000,000 <br> Subtractions (uses of cash): <br> Increase in accounts receivable <br> Increase in inventory <br> $-14,000,000$ <br> Net cash flow from operating activities: <br> - $1,000,000$ <br> \$ 1,500,000

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-04 Differentiate between accounting income and cash flows.
Topic: Accounting Income and Cash Flows
26. Statement of Cash Flows In 2008, Upper Crust had cash flows from investing activities of $(\$ 250,000)$ and cash flows from financing activities of $(\$ 150,000)$. The balance in the firm's cash account was $\$ 90,000$ at the beginning of 2008 and $\$ 105,000$ at the end of the year. What was Upper Crust's cash flow from operations for 2008 ?
A. $\$ 15,000$
B. $\$ 105,000$
C. $\$ 400,000$
D. $\$ 415,000$

Net change in cash and marketable securities $=\$ 105,000-\$ 90,000=\$ 15,000$

# Cash Flows from Operating Activities $\quad=\$ 415,000$ <br> Cash Flows from Investing Activities $\quad=-250,000$ <br> Cash Flows from Financing Activities $\quad=-\underline{150,000}$ <br> Net Change in Cash and Marketable Securities $=\$ 15,000$ 

[^6]27. Statement of Cash Flows In 2010, Lower Case Productions had cash flows from investing activities of $+\$ 50,000$ and cash flows from financing activities of $+\$ 100,000$. The balance in the firm's cash account was $\$ 80,000$ at the beginning of 2010 and $\$ 65,000$ at the end of the year. What was Lower Case's cash flow from operations for 2010?
A. \$-15,000
B. $\$-150,000$
C. $\$-165,000$
D. $\$ 65,000$

Net change in cash and marketable securities $=\$ 65,000-\$ 80,000=\$-15,000$

$$
\text { Cash Flows from Operating Activities } \quad=\$-165,000
$$

Cash Flows from Investing Activities $=\quad+50,000$ Cash Flows from Financing Activities $\quad=+\underline{100,000}$ Net Change in Cash and Marketable Securities $=\$-15,000$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-04 Differentiate between accounting income and cash flows.
Topic: Accounting Income and Cash Flows
28. Free Cash Flow You are considering an investment in Crew Cut, Inc. and want to evaluate the firm's free cash flow. From the income statement, you see that Crew Cut earned an EBIT of $\$ 23$ million, paid taxes of $\$ 4$ million, and its depreciation expense was $\$ 8$ million. Crew Cut's gross fixed assets increased by $\$ 10$ million from 2007 to 2008. The firm's current assets increased by $\$ 6$ million and spontaneous current liabilities increased by $\$ 4$ million. What is Crew Cut's operating cash flow, investment in operating capital and free cash flow for 2008, respectively in millions?
A. $\$ 23, \$ 10, \$ 13$
B. $\$ 23, \$ 12, \$ 11$
C. $\$ 27, \$ 10, \$ 17$
D. $\$ 27, \$ 12, \$ 15$

## Crew Cut's operating cash flow was:

$$
\begin{aligned}
\text { OCF } & =\text { EBIT }- \text { Taxes }+ \text { Depreciation } \\
& =(\$ 23 \mathrm{~m} .-\$ 4 \mathrm{~m}+\$ 8 \mathrm{~m})=\$ 27 \mathrm{~m}
\end{aligned}
$$

## Investment in operating capital for 2008 was:

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

$$
=\$ 10 \mathrm{~m} .+(\$ 6 \mathrm{~m} .-\$ 4 \mathrm{~m} .)=\$ 12 \mathrm{~m} .
$$

## Accordingly, Crew Cut's free cash flow for 2008 was: <br> FCF $=$ Operating cash flow - Investment in operating capital $=\$ 27 \mathrm{~m} .-\$ 12 \mathrm{~m} .=\$ 15 \mathrm{~m}$.

In other words, in 2008, Crew Cut had cash flows of $\$ 15$ million available to pay its stockholders and debt holders.
29. Free Cash Flow You are considering an investment in Cruise, Inc. and want to evaluate the firm's free cash flow. From the income statement, you see that Cruise earned an EBIT of $\$ 202$ million, paid taxes of $\$ 51$ million, and its depreciation expense was $\$ 75$ million.
Cruise's gross fixed assets increased by $\$ 70$ million from 2007 to 2008. The firm's current assets decreased by $\$ 10$ million and spontaneous current liabilities increased by $\$ 6$ million. What is Cruise's operating cash flow, investment in operating capital, and free cash flow for 2008, respectively, in millions?
A. \$202, \$70, \$130
B. $\$ 226, \$ 70, \$ 156$
C. $\$ 226, \$ 54, \$ 172$
D. $\$ 226, \$ 74, \$ 152$

Cruise's operating cash flow was:
OCF $=$ EBIT - Taxes + Depreciation
$=(\$ 202 \mathrm{~m} .-\$ 51 \mathrm{~m}+\$ 75 \mathrm{~m})=\$ 226 \mathrm{~m}$
Investment in operating capital for 2008 was:

$$
\begin{aligned}
\text { IOC } & =\Delta \text { Gross fixed assets }+\Delta \text { Net operating working capital } \\
& =\$ 70 \mathrm{~m} .+(\$-10 \mathrm{~m} .-\$ 6 \mathrm{~m} .)=\$ 54 \mathrm{~m} .
\end{aligned}
$$

Accordingly, Cruise's free cash flow for 2008 was:
FCF $=$ Operating cash flow - Investment in operating capital $=\$ 226 \mathrm{~m} .-\$ 54 \mathrm{~m} .=\$ 172 \mathrm{~m}$.

In other words, in 2008, Cruise had cash flows of $\$ 172$ million available to pay its stockholders and debt holders.
30. Free Cash Flow Catering Corp. reported free cash flows for 2008 of $\$ 8$ million and investment in operating capital of $\$ 2$ million. Catering listed $\$ 1$ million in depreciation expense and $\$ 2$ million in taxes on its 2008 income statement. What was Catering's 2008 EBIT?
A. $\$ 7$ million
B. $\$ 10$ million
C. $\$ 11$ million
D. $\$ 13$ million

## Catering's free cash flow for 2008 was:

FCF $=$ Operating cash flow - Investment in operating capital
$\$ 8 \mathrm{~m}$. $=$ Operating cash flow $-\$ 2 \mathrm{~m}$.
So, operating cash flow $=\$ 8 \mathrm{~m} .+\$ 2 \mathrm{~m} .=\$ 10 \mathrm{~m}$.
Catering's operating cash flow was:
OCF $=$ EBIT - Taxes + Depreciation
$\$ 10 \mathrm{~m} .=(\mathrm{EBIT}-\$ 2 \mathrm{~m} .+\$ 1 \mathrm{~m}$.
So, EBIT $=\$ 10 \mathrm{~m} .+\$ 2 \mathrm{~m} .-\$ 1 \mathrm{~m} .=\$ 11 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
31. Statement of Retained Earnings TriCycle, Corp. began the year 2008 with $\$ 25$ million in retained earnings. The firm earned net income of $\$ 7$ million in 2008 and paid $\$ 1$ million to its preferred stockholders and $\$ 3$ million to its common stockholders. What is the year-end 2008 balance in retained earnings for TriCycle?
A. $\$ 25$ million
B. $\$ 28$ million
C. $\$ 32$ million
D. $\$ 36$ million

The statement of retained earnings for 2008 is as follows:
$\underline{2008}$
Balance of Retained Earnings, December 31, 2007
Plus: Net Income for 2008
Less: Cash Dividends Paid Preferred Stock \$1m. Common Stock 3 m . Total Cash Dividends Paid 4 m . Total Cash Dividends Paid
Balance of Retained Earnings, December 31, 2008
32. Statement of Retained Earnings Night Scapes, Corp. began the year 2008 with $\$ 10$ million in retained earnings. The firm suffered a net loss of $\$ 2$ million in 2008 and yet paid $\$ 2$ million to its preferred stockholders and $\$ 1$ million to its common stockholders. What is the year-end 2008 balance in retained earnings for Night Scapes?
A. $\$ 5$ million
B. $\$ 8$ million
C. $\$ 9$ million
D. $\$ 15$ million

The statement of retained earnings for 2008 is as follows:
2008
Balance of Retained Earnings, December 31, 2007
Less: Net Loss for 2008
$\$ 10 \mathrm{~m}$.
Less: Cash Dividends Paid
Preferred Stock \$2m.
Common Stock 1 m .
Total Cash Dividends Paid
Balance of Retained Earnings, December 31, 2008

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
33. Statement of Retained Earnings Use the following information to find dividends paid to common stockholders during 2008.

A. $\$ 3$ million
B. $\$ 4$ million
C. $\$ 10$ million
D. $\$ 17$ million

Total Cash Dividends Paid $=\$ 56 \mathrm{~m} .-\$ 21 \mathrm{~m} .-\$ 52 \mathrm{~m} .=-\$ 17 \mathrm{~m}$. Thus, common stock dividends paid $=\$ 17 \mathrm{~m} .-\$ 7 \mathrm{~m}=\$ 10 \mathrm{~m}$.
34. Balance Sheet Harvey's Hamburger Stand has total assets of $\$ 3$ million of which $\$ 1$ million are current assets. Cash makes up 20 percent of the current assets and accounts receivable makes up another 5 percent of current assets. Harvey's gross plant and equipment has a book value of $\$ 1.5$ million and other long-term assets have a book value of $\$ 1$ million. Using this information, what is the balance of inventory and the balance of depreciation on Harvey's Hamburger Stand's balance sheet?
A. \$250,000, \$500,000
B. $\$ 250,000, \$ 1$ million
C. $\$ 750,000, \$ 500,000$
D. $\$ 750,000, \$ 1$ million

(\$1-\$0.2-\$0.05)

Fixed assets:
Gross plant and equipment $\begin{array}{lrr} & \begin{array}{l}\$ 1.5 \\ \text { step 4. }\end{array} & \begin{array}{l}0.5 \\ \\ \text { step 3. }\end{array} \\ & \$ 1.5-\$ 1.0) \\ & & (\$ 2.0-\$ 1.0) \\ \text { step 2. } & \frac{1.0}{\$ 2.0} & (\$ 3.0-\$ 1.0)\end{array}$
Less: Depreciation

Total assets
$\$ 3.0$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
35. Balance Sheet School Books, Inc. has total assets of $\$ 18$ million of which $\$ 6$ million are current assets. Cash makes up 10 percent of the current assets and accounts receivable makes up another 40 percent of current assets. School Books' gross plant and equipment has an original cost of $\$ 13$ million and other long-term assets have a cost value of $\$ 2$ million. Using this information, what are the balance of inventory and the balance of depreciation on School Books' balance sheet?
A. $\$ 3$ million, $\$ 2$ million $\mathbf{B}$.
$\$ 3$ million, $\$ 3$ million C.
$\$ 2.4$ million, $\$ 2$ million D .
$\$ 2.4$ million, $\$ 3$ million

| Current assets: |  |  |  |
| :---: | :---: | :---: | :---: |
| Cash and marketable |  |  |  |
| Securities ( $.10 \times \$ 6$ ) |  | \$ 0.6 |  |
| Accounts receivable | x \$6) | 2.4 |  |
| Inventory | step 1. | 3.0 | (\$ 6- \$0.6-\$3.0) |
| Total |  | \$ 6.0 |  |
| Fixed assets: |  |  |  |
| Gross plant and |  |  |  |
| Less: Depreciation | step 4. | 3.0 | (\$13-\$10) |
| Net plant and equipment | step 3. | \$10.0 | (\$12-\$2) |
| Other long-term assets |  | 2.0 |  |
| Total | step 2. | \$12.0 | (\$18-\$6) |
| Total assets |  | \$18.0 |  |

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
36. Balance Sheet Ted's Taco Shop has total assets of $\$ 5$ million. Forty percent of these assets are financed with debt of which $\$ 400,000$ is current liabilities. The firm has no preferred stock but the balance in common stock and paid-in surplus is $\$ 1$ million. Using this information what is the balance for long-term debt and retained earnings on Ted's Taco Shop's balance sheet?
A. $\$ 400,000, \$ 1$ million
B. $\$ 1.6$ million, $\$ 2$ million
C. $\$ 1.6$ million, $\$ 3$ million
D. $\$ 2$ million, $\$ 3$ million

## Total current liabilities

\$ . 4

Long-term debt:
Total debt:
step 3. $\$ 1.6 \quad(=\$ 2-\$ .4)$
step 2. $\$ 2(=.4 \times \$ 5)$

## Stockholders' equity:

Preferred stock
\$ 0
Common stock and paid-in surplus

1
( 2 million shares)
Retained earnings
Total
step 5. $\quad \underline{2} \quad(=\$ 3-\$ 1)$
step 4 \$3 $(=\$ 5-\$ 2)$
Total liabilities and equity step 1. $\underline{\underline{5}}$ (= Total Assets)
37. Balance Sheet Hair Etc. has total assets of $\$ 15$ million. Twenty percent of these assets are financed with debt of which $\$ 1$ million is current liabilities. The firm has no preferred stock but the balance in common stock and paid-in surplus is $\$ 8$ million. Using this information what is the balance for long-term debt and retained earnings on Hair Etc.'s balance sheet?
A. $\$ 1$ million, $\$ 8$ million
B. $\$ 2$ million, $\$ 4$ million
C. $\$ 2$ million, $\$ 8$ million
D. $\$ 3$ million, $\$ 4$ million

## Total current liabilities

Long-term debt: step 3
Total debt: step 2.
Stockholders' equity:
Preferred stock
Common stock and paid-in surplus
( 2 million shares)
Retained earnings
Total

## \$ 1

\$2 $(=\$ 3-\$ 1)$
$\$ 3(=.2 \times \$ 15 \mathrm{~m})$
step 5.
step 4
step 1. $\$ 15$ (= Total Assets)
$4 \quad(=\$ 12-\$ 8)$
$\$ 12(=\$ 15-\$ 3)$

## Total liabilities and equity

\$ 0

## 8

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
38. Market Value versus Book Value Acme Bricks balance sheet lists net fixed assets as $\$ 40$ million. The fixed assets could currently be sold for $\$ 50$ million. Acme's current balance sheet shows current liabilities of $\$ 15$ million and net working capital of $\$ 12$ million. If all the current accounts were liquidated today, the company would receive $\$ 77$ million cash after paying $\$ 15$ million in liabilities. What is the book value of Acme's assets today? What is the market value of these assets?
A. $\$ 12$ million, $\$ 77$ million
B. $\$ 27$ million, $\$ 92$ million
C. $\$ 40$ million, $\$ 50$ million
D. $\$ 67$ million, $\$ 142$ million

| Book | Market |
| :---: | :---: |
| value | value |

Assets
Current assets step 1.
Fixed assets
Total step 2.
\$27m.
40 m . $\$ 67 \mathrm{~m}$.

step 3. | $\$ 92 \mathrm{~m}$. |
| ---: |
| $\frac{50 \mathrm{~m} .}{\$ 142 \mathrm{~m} .}$ |

Step 1. Net working capital (book value) $=$ Current assets (book value) - Current liabilities (book value)
$=\$ 12 \mathrm{~m} .=$ Current assets (book value) $-\$ 15 \mathrm{~m} .=>$ Current assets $($ book value $)=\$ 12 \mathrm{~m} .+$ $\$ 15 \mathrm{~m}$. $=\$ 27 \mathrm{~m}$.
Step 2. Total assets (book value) $=\$ 27 \mathrm{~m} .+\$ 40 \mathrm{~m} .=\$ 67 \mathrm{~m}$.
Step 3. Net working capital (market value) = Current assets (market value) - Current liabilities (market value)
$=\$ 77 \mathrm{~m} .=$ Current assets (market value) - \$15m. => Current assets (market value) $=\$ 77 \mathrm{~m} .+$ $\$ 15 \mathrm{~m} .=\$ 92 \mathrm{~m}$.
Step 4. Total assets $($ market value $)=\$ 92 \mathrm{~m} .+\$ 50 \mathrm{~m} .=\$ 142 \mathrm{~m}$.

[^7]39. Market Value versus Book Value Glo's Glasses balance sheet lists net fixed assets as $\$ 20$ million. The fixed assets could currently be sold for $\$ 25$ million. Glo's current balance sheet shows current liabilities of $\$ 7$ million and net working capital of $\$ 3$ million. If all the current accounts were liquidated today, the company would receive $\$ 9$ million cash after paying $\$ 7$ million in liabilities. What is the book value of Glo's assets today? What is the market value of these assets?
A. $\$ 10$ million, $\$ 16$ million
B. $\$ 10$ million, $\$ 35$ million
C. $\$ 30$ million, $\$ 35$ million
D. $\$ 30$ million, $\$ 41$ million

| Book | Market |
| :---: | :---: |
| value | value |

Assets
Current assets step 1.
Fixed assets
Total
step 2.
$\$ 10 \mathrm{~m}$.
20 m.
$\$ 30 \mathrm{~m}$.
step 3. $\$ 16 \mathrm{~m}$.

Step 1. Net working capital $($ book value $)=$ Current assets (book value) - Current liabilities (book value)
$=\$ 3 \mathrm{~m} .=$ Current assets (book value) $-\$ 7 \mathrm{~m} .=>$ Current assets $($ book value $)=\$ 3 \mathrm{~m} .+\$ 7 \mathrm{~m} .=$ \$10m.
Step 2. Total assets (book value) $=\$ 10 \mathrm{~m} .+\$ 20 \mathrm{~m} .=\$ 30 \mathrm{~m}$.
Step 3. Net working capital (market value) $=$ Current assets (market value) - Current liabilities (market value)
$=\$ 9 \mathrm{~m} .=$ Current assets (market value) $-\$ 7 \mathrm{~m} .=>$ Current assets $($ market value $)=\$ 9 \mathrm{~m} .+$ $\$ 7 \mathrm{~m} .=\$ 16 \mathrm{~m}$.
Step 4. Total assets $($ market value $)=\$ 16 \mathrm{~m} .+\$ 25 \mathrm{~m} .=\$ 41 \mathrm{~m}$.
40. Market Value versus Book Value Rupert's Rims balance sheet lists net fixed assets as $\$ 15$ million. The fixed assets could currently be sold for $\$ 17$ million. Rupert's current balance sheet shows current liabilities of $\$ 5$ million and net working capital of $\$ 3$ million. If all the current accounts were liquidated today, the company would receive $\$ 6$ million cash after paying $\$ 5$ million in liabilities. What is the book value of Rupert's assets today? What is the market value of these assets?
A. $\$ 8$ million, $\$ 23$ million
B. $\$ 23$ million, $\$ 25$ million
C. $\$ 23$ million, $\$ 28$ million
D. $\$ 31$ million, $\$ 28$ million

| Book | Market |
| :---: | :---: |
| value | value |

Assets
Current assets step 1.
Fixed assets
Total

| $\$ 8 \mathrm{~m}$. | step 3. |
| :--- | ---: |
| $\frac{\$ 11 \mathrm{~m} .}{}$$\$ 2 \mathrm{~m}$. | 17 m. <br> $\$ 28 \mathrm{~m}$. |

Step 1. Net working capital (book value) $=$ Current assets (book value) - Current liabilities (book value)
$=\$ 3 \mathrm{~m} .=$ Current assets (book value) $-\$ 5 \mathrm{~m} .=>$ Current assets $($ book value $)=\$ 3 \mathrm{~m} .+\$ 5 \mathrm{~m} .=$ \$8m.
Step 2. Total assets $($ book value $)=\$ 8 \mathrm{~m} .+\$ 15 \mathrm{~m} .=\$ 23 \mathrm{~m}$.
Step 3. Net working capital (market value) = Current assets (market value) - Current liabilities (market value)
$=\$ 6 \mathrm{~m} .=$ Current assets (market value) - \$5m. $=>$ Current assets (market value) $=\$ 6 \mathrm{~m} .+$ $\$ 5 \mathrm{~m} .=\$ 11 \mathrm{~m}$.
Step 4. Total assets $($ market value $)=\$ 11 \mathrm{~m} .+\$ 17 \mathrm{~m} .=\$ 28 \mathrm{~m}$.
41. Debt versus Equity Financing You are considering a stock investment in one of two firms (AllDebt, Inc. and AllEquity, Inc.), both of which operate in the same industry and have identical operating income of $\$ 600,000$. AllDebt, Inc. finances its $\$ 1.2$ million in assets with $\$ 1$ million in debt (on which it pays 10 percent interest annually) and $\$ .2$ million in equity. AllEquity, Inc. finances its $\$ 1.2$ million in assets with no debt and $\$ 1.2$ million in equity. Both firms pay a tax rate of 30 percent on their taxable income. What are the asset funders' (the debt holders and stockholders') resulting return on assets for the two firms?
A. $29.17 \%$, and $35 \%$, respectively
B. $37.5 \%$, and $35 \%$, respectively
C. $37.5 \%$, and $37.5 \%$, respectively
D. $50 \%$, and $50 \%$, respectively

|  | AllDebt | AllEquity |
| :---: | :---: | :---: |
| Operating income | \$.6m. | \$.6m. |
| Less: Interest (\$1m. x.1) | . 1 m . | 0m. |
| Taxable income | . 5 m . | . 6 m . |
| Less: Taxes (30\%) | . 15 m . | 18 m . |
| Net income | \$.35m. | \$.42m. |
| Income available for asset funders (= operating income - taxes) | \$.45m. | \$.42m. |

Return on assets funders' investment $\$ .45 \mathrm{~m} / \$ 1.2 \mathrm{~m}=$ $37.50 \% \$ .42 \mathrm{~m} / \$ 1.2 \mathrm{~m}=35.00 \%$
42. Debt versus Equity Financing You are considering a stock investment in one of two firms (AllDebt, Inc. and AllEquity, Inc.), both of which operate in the same industry and have identical operating income of $\$ 3$ million. AllDebt, Inc. finances its $\$ 6$ million in assets with $\$ 5$ million in debt (on which it pays 5 percent interest annually) and $\$ 1$ million in equity. AllEquity, Inc. finances its $\$ 6$ million in assets with no debt and $\$ 6$ million in equity. Both firms pay a tax rate of 40 percent on their taxable income. What are the asset funders' (the debt holders and stockholders') resulting return on assets for the two firms?
A. $27.5 \%$, and $30 \%$, respectively
B. $31.67 \%$, and $30 \%$, respectively
C. $33 \%$, and $30 \%$, respectively D.
$50 \%$, and $50 \%$, respectively


Return on assets funders' investment $\$ 1.9 \mathrm{~m} / \$ 6 \mathrm{~m}=31.67 \%$
$\$ 1.8 \mathrm{~m} / \$ 6 \mathrm{~m}=30.00 \%$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide. Topic: Understanding Financial Statements
43. Debt versus Equity Financing You are considering a stock investment in one of two firms (AllDebt, Inc. and AllEquity, Inc.), both of which operate in the same industry and have identical operating income of $\$ 400,000$. AllDebt, Inc. finances its $\$ 800,000$ in assets with $\$ 600,000$ in debt (on which it pays 5 percent interest annually) and $\$ 200,000$ in equity. AllEquity, Inc. finances its $\$ 800,000$ in assets with no debt and $\$ 800,000$ in equity. Both firms pay a tax rate of 30 percent on their taxable income. What are the asset funders' (the debt holders and stockholders') resulting return on assets for the two firms?
A. $32.375 \%$, and $35.00 \%$,respectively
B. $36.125 \%$, and $35.00 \%$, respectively
C. $46.25 \%$, and $50 \%$, respectively
D. $50 \%$, and $50 \%$, respectively

|  | AllDebt | AllEquity |
| :---: | :---: | :---: |
| Operating income | \$. 4 m . | \$ . 4 m . |
| Less: Interest (\$.6m. x .05) | . 03 m . | 0 m . |
| Taxable income | .37 m . | .4 m . |
| Less: Taxes (30\%) | 111 m . | 12 m . |
| Net income | \$.259m. | \$.28m. |
| Income available for asset funders | \$.289m. | \$.28m. |

Return on assets funders' investment $\$ .289 \mathrm{~m} / \$ .8 \mathrm{~m}=$ $36.125 \% \$ .28 \mathrm{~m} / \$ .8 \mathrm{~m}=35.00 \%$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements

Chapter 02 - Reviewing Financial Statements
44. Income Statement You have been given the following information for Fina's Furniture Corp.:
net sales $=\$ 25,500,000$;
cost of goods sold $=\$ 10,250,000$; addition
to retained earnings = \$305,000;
dividends paid to preferred and common stockholders $=\$ 500,000$;
interest expense $=\$ 2,000,000$.
The firm's tax rate is 30 percent. What is the depreciation expense for Fina's Furniture Corp?
A. $\$ 12,100,000$
B. $\$ 12,400,000$
C. $\$ 14,100,000$
D. $\$ 14,400,000$

| Net sales (all credit) |  | \$25,500,000 |
| :---: | :---: | :---: |
| Less: Cost of goods sold |  | 10,250,000 |
| Gross profits | step 4. | \$15,250,000 |
| Less: Depreciation | step 5. | \$12,100,000 |
| Earnings before interest and taxes (EBIT) | step 3. | \$3,150,000 |
| Less: Interest |  | 2,000,000 |
| Earnings before taxes (EBT) | step 2. | \$1,150,000 |
| Less: Taxes |  |  |
| Net income | step 1. | \$ 805,000 |
| Less: Common and preferred stock dividendsAddition to retained earnings |  | \$ 500,000 |
|  |  | \$ 305,000 |

Step 1. Net income $=$ Common and preferred stock dividends + Addition to retained earnings =
$\$ 500,000+\$ 305,000=\$ 805,000$
Step 2. EBT (1-tax rate $)=$ Net income $=>$ EBT $=$ Net income $/(1-$ tax rate $)=\$ 805,000 /(1-$
.3) $=\$ 1,150,000$
Step 3. EBIT - Interest $=$ EBT $\Rightarrow$ EBIT $=$ EBT + Interest $=\$ 1,150,000+\$ 2,000,000$ = \$3,150,000
Step 4. Gross profits $=$ Net sales - Cost of goods sold $=\$ 25,500,000-10,250,000=$ \$15,250,000
Step 5. Gross profits - Depreciation $=$ EBIT $\Rightarrow>$ Depreciation $=$ Gross profits - EBIT $=$ $\$ 15,250,000-\$ 3,150,000=\$ 12,100,000$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
45. Income Statement You have been given the following information for Romeo's Rockers Corp.:
net sales $=\$ 5,200,000$;
cost of goods sold $=\$ 2,100,000$;
addition to retained earnings $=\$ 1,000,000$;
dividends paid to preferred and common stockholders $=\$ 400,000$;
interest expense $=\$ 200,000$.
The firm's tax rate is 30 percent. What is the depreciation expense for Romeo's Rockers Corp.?
A. \$900,000
B. $\$ 1,100,000$
C. $\$ 1,500,000$
D. $\$ 1,600,000$

Net sales (all credit)
Less: Cost of goods sold
Gross profits
Less: Depreciation
Earnings before interest and taxes (EBIT)
$\$ 5,200,000$

step 4. $\quad$| $2,100,000$ |
| ---: |
| $\$ 3,100,000$ |

Less: Interest
Earnings before taxes (EBT)
Less: Taxes
Net income
step 1. $\quad \$ 1,400,000$
Less: Common and preferred stock dividends Addition to retained earnings
\$ 400,000 \$1,000,000

Step 1. Net income $=$ Common and preferred stock dividends + Addition to retained earnings =
$\$ 400,000+\$ 1,000,000=\$ 1,400,000$
Step 2. EBT $(1-$ tax rate $)=$ Net income $=>$ EBT $=$ Net income $/(1-$ tax rate $)=\$ 1,400,000 /(1-$ .3) $=\$ 2,000,000$
Step 3. EBIT - Interest $=$ EBT $=>$ EBIT $=$ EBT + Interest $=\$ 2,000,000+\$ 200,000$
= \$2,200,000
Step 4. Gross profits $=$ Net sales - Cost of goods sold $=\$ 5,200,000-2,100,000=\$ 3,100,000$
Step 5. Gross profits - Depreciation $=$ EBIT $=>$ Depreciation $=$ Gross profits - EBIT $=$ \$3,100,000-\$2,200,000 = \$900,000

## Chapter 02 - Reviewing Financial Statements

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
46. Income Statement You have been given the following information for Nicole's Neckties Corp.:
net sales $=\$ 2,500,000$;
cost of goods sold $=\$ 1,300,000$; addition
to retained earnings $=\$ 30,000$;
dividends paid to preferred and common stockholders $=\$ 300,000$;
interest expense $=\$ 50,000$.
The firm's tax rate is 40 percent. What is the depreciation expense for Nicole's Neckties Corp.?
A. $\$ 550,000$
B. $\$ 600,000$
C. \$650,000
D. $\$ 820,000$

Net sales (all credit)
$\$ 2,500,000$

step 4. $\quad$| $1,300,000$ |
| ---: |
| $\$ 1,200,000$ |

Less: Depreciation
step 5. \$ 600,000
Earnings before interest and taxes (EBIT) step 3 . \$ 600,000
Less: Interest
Earnings before taxes (EBT)
step 2. $\$ 550,000$
Less: Taxes
Net income
step 1. $\$ 330,000$
Less: Common and preferred stock dividends Addition to retained earnings

Step 1. Net income $=$ Common and preferred stock dividends + Addition to retained earnings $=\$ 300,000+\$ 30,000=\$ 330,000$
Step 2. EBT $(1-$ tax rate $)=$ Net income $=>$ EBT $=$ Net income $/(1-$ tax rate $)=\$ 330,000 /(1-$ .4) $=\$ 550,000$
Step 3. EBIT - Interest $=$ EBT $=>$ EBIT $=$ EBT + Interest $=\$ 550,000+\$ 50,000=\$ 600,000$
Step 4. Gross profits $=$ Net sales - Cost of goods sold $=\$ 2,500,000-1,300,000=\$ 1,200,000$
Step 5. Gross profits - Depreciation $=$ EBIT $\Rightarrow$ Depreciation $=$ Gross profits - EBIT $=$
$\$ 1,200,000-\$ 600,000=\$ 600,000$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
47. Income Statement You have been given the following information for Sherry's Sandwich Corp.:
net sales $=\$ 300,000$;
gross profit = \$100,000;
addition to retained earnings $=\$ 30,000$;
dividends paid to preferred and common stockholders $=\$ 8,500$;
depreciation expense $=\$ 25,000$.
The firm's tax rate is 30 percent. What are the cost of goods sold and the interest expense for Sherry's Sandwich Corp.?
A. $\$ 20,000$, and $\$ 200,000$, respectively
B. $\$ 100,000$, and $\$ 20,000$, respectively
C. $\$ 200,000$, and $\$ 20,000$, respectively
D. $\$ 200,000$, and $\$ 36,500$, respectively

| Net sales (all credit) |  | $\$ 300,000$ |
| :--- | ---: | ---: |
| Less: Cost of goods sold | step 3. | $\underline{200,000}$ |
| Gross profits |  | $\$ 100,000$ |

Less: Depreciation
Earnings before interest and taxes (EBIT)
Less: Interest
Earnings before taxes (EBT)

|  | $\$ 25,000$ |
| :--- | ---: |
| step 4. | $\$ 75,000$ |
| step 5. | $\underline{20,000}$ |
| step 2. | $\$ 55,000$ |

## Less: Taxes

Net income
step 1. $\quad \$ 38,500$

## Less: Common and preferred stock dividends Addition to retained earnings

Step 1. Net income $=$ Common and preferred stock dividends + Addition to retained earnings $=\$ 8,500+\$ 30,000=\$ 38,500$
Step 2. EBT $(1-\operatorname{tax}$ rate $)=$ Net income $=>E B T=$ Net income $/(1-$ tax rate $)=\$ 38,500 /(1-.3)$ = \$55,000
Step 3. Gross profits $=$ Net sales - Cost of goods sold $=>$ Net Sales - Gross Profit $=$ Cost of Goods Sold \$300,000-100,000 = \$200,000
Step 4. Gross profits - Depreciation $=$ EBIT $=\$ 100,000-\$ 25,000=\$ 75,000$
Step 5. EBIT - Interest $=$ EBT $=>$ Interest $=$ EBIT - EBT $=\$ 75,000-\$ 55,000=\$ 20,000$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide. Topic: Understanding Financial Statements
48. Income Statement You have been given the following information for Kaye's Krumpet Corp.:
net sales $=\$ 150,000$;
gross profit = $\$ 100,000$;
addition to retained earnings $=\$ 20,000$;
dividends paid to preferred and common stockholders $=\$ 8,000$;
depreciation expense $=\$ 50,000$.
The firm's tax rate is 30 percent. What are the cost of goods sold and the interest expense for Kaye's Krumpet Corp.?
A. $\$ 10,000$, and $\$ 50,000$, respectively
B. $\$ 50,000$, and $\$ 10,000$, respectively
C. $\$ 50,000$, and $\$ 22,000$, respectively
D. $\$ 62,000$, and $\$ 10,000$, respectively

Net sales (all credit)
\$150,000
Less: Cost of goods sold
Gross profits
Less: Depreciation
Earnings before interest and taxes (EBIT)
Less: Interest
Earnings before taxes (EBT)
step 3. 50,000 $\$ 100,000$

## Less: Taxes

Net income
step 1.
$\$ 50,000$
\$ 50,000
step 4.
10,000
step 5.
step 2.
\$ 40,000
$\$ 28,000$

## Less: Common and preferred stock dividends Addition to retained earnings

Step 1. Net income $=$ Common and preferred stock dividends + Addition to retained earnings $=\$ 8,000+\$ 20,000=\$ 28,000$
Step 2. EBT $(1-$ tax rate $)=$ Net income $=>$ EBT $=$ Net income $/(1-$ tax rate $)=\$ 28,000 /(1-.3)$ = \$40,000
Step 3. Gross profits $=$ Net sales - Cost of goods sold $=>$ Net Sales - Gross Profit $=$ Cost of Goods Sold \$150,000-50,000 = \$50,000
Step 4. Gross profits - Depreciation $=$ EBIT $=\$ 100,000-\$ 50,000=\$ 50,000$
Step 5. EBIT - Interest $=$ EBT $\Rightarrow>$ Interest $=$ EBIT - EBT $=\$ 50,000-\$ 40,000=\$ 10,000$

## Chapter 02 - Reviewing Financial Statements

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements
49. Income Statement You have been given the following information for Ross's Rocket Corp.:
net sales $=\$ 1,000,000$;
gross profit = \$400,000;
addition to retained earnings $=\$ 60,000$;
dividends paid to preferred and common stockholders $=\$ 90,000$;
depreciation expense $=\$ 50,000$.
The firm's tax rate is 40 percent. What are the cost of goods sold and the interest expense for
Ross's Rocket Corp.?
A. $\$ 100,000$, and $\$ 600,000$, respectively
B. $\$ 600,000$, and $\$ 100,000$, respectively
C. $\$ 600,000$, and $\$ 200,000$, respectively
D. $\$ 700,000$, and $\$ 100,000$, respectively

Net sales (all credit)
$\$ 1,000,000$
step 3.

| 600,000 |
| ---: |
| $\$ 400,000$ |

## Less: Depreciation

Earnings before interest and taxes (EBIT)

|  | $\$ 50,000$ |
| :--- | ---: |
| step 4. | $\$ 350,000$ |
| step 5. | 100,000 <br> step 2. |

Less: Interest
Earnings before taxes (EBT)
step 2.
\$ 250,000
Less: Taxes
Net income
step 1.
$\$ 150,000$

## Less: Common and preferred stock dividends Addition to retained earnings

Step 1. Net income $=$ Common and preferred stock dividends + Addition to retained earnings =
$\$ 90,000+\$ 60,000=\$ 150,000$
Step 2. EBT $(1-$ tax rate $)=$ Net income $=>$ EBT $=$ Net income $/(1-$ tax rate $)=\$ 150,000 /(1-$ .4) $=\$ 250,000$
Step 3. Gross profits $=$ Net sales - Cost of goods sold $=>$ Net Sales - Gross Profit $=$ Cost of Goods Sold \$1,000,000-400,000 = \$600,000
Step 4. Gross profits - Depreciation $=$ EBIT $=\$ 400,000-\$ 50,000=\$ 350,000$
Step 5. EBIT - Interest $=$ EBT $=>$ Interest $=$ EBIT - EBT $=\$ 350,000-\$ 250,000=\$ 100,000$

Chapter 02 - Reviewing Financial Statements

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements

| Table 2.3 | Corporate Tax Rates as of 2012 |  |
| :--- | ---: | ---: |
| Taxable Income | Pay this Amount <br> on Base Income | Plus this Percentage <br> on Anything Over <br> the Base |
| $\$ 0-\$ 50,000$ | $\$ 0$ | $15 \%$ |
| $\$ 50,001-\$ 75,000$ | $\$ 7,500$ | $25 \%$ |
| $\$ 75,001-\$ 100,000$ | $\$ 13,750$ | $34 \%$ |
| $\$ 100,001-\$ 335,000$ | $\$ 22,250$ | $39 \%$ |
| $\$ 335,001-\$ 10,000,000$ | $\$ 113,900$ | $34 \%$ |
| $\$ 10,000,001-\$ 15,000,000$ | $\$ 3,400,000$ | $35 \%$ |
| $\$ 15,000,001-\$ 18,333,333$ | $\$ 5,150,000$ | $38 \%$ |
| Over $\$ 18,333,333$ | $\$ 6,416,667$ | $35 \%$ |

50. Corporate Taxes The Carolina Corporation had a 2010 taxable income of $\$ 3,000,000$ from operations after all operating costs but before
(1) interest charges of $\$ 500,000$,
(2) dividends received of $\$ 75,000$,
(3) dividends paid of $\$ 1,000,000$, and
(4) income taxes.

Using the tax schedule in Table 2.3, what is Carolina's income tax liability?
What are Carolina's average and marginal tax rates on taxable income from operations?
A. $\$ 857,650,28.59 \%, 34 \%$, respectively
B. $\$ 875,500,29.18 \%, 34 \%$, respectively
C. $\$ 875,500,34.00 \%, 34 \%$, respectively
D. $\$ 1,020,000,34.00 \%, 34 \%$, respectively

The first 70 percent of the dividends received by Carolina Corp. is not taxable. Thus, only 30 percent of the dividends received are taxed, so:
Taxable income $=\$ 3,000,000-\$ 500,000+(.3) \$ 75,000=\$ 2,522,500$
Now Carolina's Corp.'s tax liability will be:
Tax liability $=\$ 113,900+.34(\$ 2,522,500-\$ 335,000)=\$ 857,650$
Carolina Corp.'s resulting average tax rate is now:
Average tax rate $=\$ 857650 / \$ 3,000,000=28.59 \%$
Finally, if Carolina Corp earned $\$ 1$ more of taxable income, it would still pay 34 cents (based upon its marginal tax rate of 34 percent) more in taxes.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Topic: Taxes
51. Corporate Taxes The Ohio Corporation had a 2010 taxable income of $\$ 50,000,000$ from operations after all operating costs but before
(1) interest charges of $\$ 500,000$,
(2) dividends received of $\$ 45,000$,
(3) dividends paid of $\$ 10,000,000$, and
(4) income taxes.

Using the tax schedule in Table 2.3, what is Ohio's income tax liability?
What are Ohio's average and marginal tax rates on taxable income from operations?
A. $\$ 6,416,667,12.83 \%, 35 \%$, respectively
B. $\$ 13,829,725,27.66 \%, 35 \%$, respectively
C. $\$ 17,329,725,34.66 \%, 35 \%$, respectively
D. $\$ 17,340,750,34.68 \%, 35 \%$, respectively

The first 70 percent of the dividends received by Ohio Corp. is not taxable. Thus, only 30 percent of the dividends received are taxed, so:
Taxable income $=\$ 50,000,000-\$ 500,000+(.3) \$ 45,000=\$ 49,513,500$
Now Ohio's Corp.'s tax liability will be:
Tax liability $=\$ 6,416,667+.35(\$ 49,513,500-\$ 18,333,333)=\$ 17,329,725$
Ohio Corp.'s resulting average tax rate is now:
Average tax rate $=\$ 17,329,725.45 / \$ 50,000,000=34.66 \%$
Finally, if Ohio Corp earned $\$ 1$ more of taxable income, it would still pay 35 cents (based upon its marginal tax rate of 35 percent) more in taxes.

[^8]52. Corporate Taxes The Sasnak Corporation had a 2010 taxable income of $\$ 4,450,000$ from operations after all operating costs but before
(1) interest charges of $\$ 750,000$,
(2) dividends received of $\$ 900,000$,
(3) dividends paid of $\$ 500,000$, and
(4) income taxes.

Using the tax schedule in Table 2.3, what is Sasnak's income tax liability?
What are Sasnak's average and marginal tax rates on taxable income from operations?
A. $\$ 1,349,800,30.33 \%, 34 \%$, respectively
B. $\$ 1,349,800,34.00 \%, 34 \%$, respectively
C. $\$ 1,564,000,34.00 \%, 34 \%$, respectively
D. $\$ 1,564,000,35.15 \%, 34 \%$, respectively

The first 70 percent of the dividends received by Sasnak Corp. is not taxable. Thus, only 30 percent of the dividends received are taxed, so:
Taxable income $=\$ 4,450,000-\$ 750,000+(.3) \$ 900,000=\$ 3,970,000$
Now Sasnak's Corp.'s tax liability will be:
Tax liability $=\$ 113,900+.34(\$ 3,970,000-\$ 335,000)=\$ 1,349,800$
Sasnak Corp.'s resulting average tax rate is now:
Average tax rate $=\$ 1,349,800 / \$ 4,450,000=30.33 \%$
Finally, if Sasnak Corp. earned $\$ 1$ more of taxable income, it would still pay 34 cents (based upon its marginal tax rate of 34 percent) more in taxes.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Topic: Taxes
53. Corporate Taxes The AOK Corporation had a 2008 taxable income of \$2,200,000 from operations after all operating costs but before
(1) interest charges of $\$ 90,000$,
(2) dividends received of $\$ 750,000$,
(3) dividends paid of $\$ 80,000$, and
(4) income taxes.

Using the tax schedule in Table 2.3, what is AOK's income tax liability?
What are AOK's average and marginal tax rates on taxable income from operations?
A. $\$ 793,900,34 \%, 34 \%$, respectively
B. $\$ 793,900,36.0864 \%, 34 \%$, respectively
C. $\$ 972,400,34 \%, 34 \%$, respectively
D. $\$ 972,400,44.2 \%, 34 \%$, respectively

The first 70 percent of the dividends received by AOK Corp. is not taxable. Thus, only 30 percent of the dividends received are taxed, so:
Taxable income $=\$ 2,200,000-\$ 90,000+(.3) \$ 750,000=\$ 2,335,000$
Now AOK's Corp.'s tax liability will be:
Tax liability $=\$ 113,900+.34(\$ 2,335,000-\$ 335,000)=\$ 793,900$
AOK Corp.'s resulting average tax rate is now:
Average tax rate $=\$ 793,900 / \$ 2,200,000=36.0864 \%$
Finally, if AOK Corp. earned $\$ 1$ more of taxable income, it would still pay 34 cents (based upon its marginal tax rate of 34 percent) more in taxes.
54. Corporate Taxes Suppose that in addition to the $\$ 5.5$ million of taxable income from operations, Emily's Flowers, Inc. received $\$ 500,000$ of interest on state-issued bonds and $\$ 300,000$ of dividends on common stock it owns in Amy's Iris Bulbs, Inc.
Using the tax schedule in Table 2.3 what is Emily's Flowers' income tax liability?
What are Emily's Flowers' average and marginal tax rates on total taxable income?
A. $\$ 1,900,600,34 \%, 34 \%$, respectively
B. $\$ 1,972,000,34 \%, 34 \%$, respectively
C. $\$ 2,070,600,34 \%, 34 \%$, respectively
D. $\$ 2,142,000,34 \%, 34 \%$, respectively

Interest on the state-issued bonds is not taxable and should not be included in taxable income. Further, the first 70 percent of the dividends received from Amy's is not taxable. Thus, only 30 percent of the dividends received are taxed, so:
Taxable income $=\$ 5,500,000+(.3) \$ 300,000=\$ 5,590,000$
Now Emily's tax liability will be:
Tax liability $=\$ 113,900+.34(\$ 5,590,000-\$ 335,000)=\$ 1,900,600$
Emily's resulting average tax rate is now:
Average tax rate $=\$ 1,900,600 / \$ 5,590,000=34 \%$
Finally, if Emily earned $\$ 1$ more of taxable income, it would still pay 34 cents (based upon its marginal tax rate of 34 percent) more in taxes.
55. Corporate Taxes Suppose that in addition to the $\$ 300,000$ of taxable income from operations, Liam's Burgers, Inc. received $\$ 25,000$ of interest on state-issued bonds and $\$ 50,000$ of dividends on common stock it owns in Sodas, Inc.
Using the tax schedule in Table 2.3 what is Liam's income tax liability?
What are Liam's average and marginal tax rates on total taxable income?
A. $\$ 106,100,33.68 \%, 39 \%$, respectively
B. $\$ 122,850,39.00 \%, 39 \%$, respectively
C. $\$ 129,500,34.53 \%, 39 \%$, respectively
D. $\$ 139,250,37.13 \%, 39 \%$, respectively

Interest on the state-issued bonds is not taxable and should not be included in taxable income. Further, the first 70 percent of the dividends received from Soda's is not taxable. Thus, only 30 percent of the dividends received are taxed, so:
Taxable income $=\$ 300,000+(.3) \$ 50,000=\$ 315,000$
Now Liam's tax liability will be:
Tax liability $=\$ 22,250+.39(\$ 315,000-\$ 100,000)=\$ 106,100$
Liam's resulting average tax rate is now:
Average tax rate $=\$ 106,100 / \$ 315,000=33.68 \%$
Finally, if Liam earned \$1 more of taxable income, it would still pay 39 cents (based upon its marginal tax rate of 39 percent) more in taxes.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Topic: Taxes
56. Statement of Cash Flows Fina's Faucets, Inc. has net cash flows from operating activities for the last year of $\$ 17$ million. The income statement shows that net income is $\$ 15$ million and depreciation expense is $\$ 6$ million. During the year, the change in inventory on the balance sheet was an increase of $\$ 4$ million, change in accrued wages and taxes was an increase of $\$ 1$ million and change in accounts payable was an increase of $\$ 1$ million. At the beginning of the year the balance of accounts receivable was $\$ 5$ million. What was the end of year balance for accounts receivable?
A. $\$ 2$ million
B. $\$ 3$ million
C. $\$ 7$ million
D. $\$ 9$ million

## Cash Flows from Operating Activities

| Net income | $\$ 15 \mathrm{~m}$. |
| :--- | :--- |
| Additions (sources of cash): | 6 m. |
| $\quad$ Depreciation | 1 m. |
| Increase accrued wages and taxes | 1 m. |
| Increase in accounts payable |  |
| Subtractions (uses of cash): | $-2 \mathrm{~m} .(=\$ 17 \mathrm{~m} .-\$ 15 \mathrm{~m} .-\$ 6 \mathrm{~m} .-\$ 1 \mathrm{~m} .-\$ 1 \mathrm{~m} .+\$ 4 \mathrm{~m})$. |
| Increase in accounts receivable | -4 m. |

Net cash flow from operating activities: $\quad \$ 17 \mathrm{~m}$.

Thus, end of year balance of accounts receivable $=\$ 5 \mathrm{~m} .+\$ 2 \mathrm{~m} .=\$ 7 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
57. Statement of Cash Flows Zoe's Dog Biscuits, Inc. has net cash flows from operating activities for the last year of $\$ 226$ million. The income statement shows that net income is $\$ 150$ million and depreciation expense is $\$ 85$ million. During the year, the change in inventory on the balance sheet was an increase of $\$ 14$ million, change in accrued wages and taxes was an increase of $\$ 15$ million and change in accounts payable was an increase of $\$ 10$ million. At the beginning of the year the balance of accounts receivable was $\$ 45$ million. What was the end of year balance for accounts receivable?
A. $\$ 20$ million
B. $\$ 25$ million
C. $\$ 45$ million
D. $\$ 65$ million

## Cash Flows from Operating Activities

| Net income | $\$ 150 \mathrm{~m}$. |
| :--- | :--- |
| Additions (sources of cash): |  |
| $\quad 85 \mathrm{~m}$. |  |
| Depreciation | 15 m. |
| Increase accrued wages and taxes |  |
| Increase in accounts payable | 10 m. |
| Subtractions (uses of cash): |  |
| Increase in accounts receivable | $-20 \mathrm{~m} .(=\$ 226 \mathrm{~m} .-\$ 150 \mathrm{~m} .-\$ 85 \mathrm{~m} .-\$ 15 \mathrm{~m} .-\$ 10 \mathrm{~m} .+\$ 14 \mathrm{~m})$. |
| Increase in inventory | -14 m. |

Net cash flow from operating activities: \$ 226 m .

Thus, end of year balance of accounts receivable $=\$ 45 \mathrm{~m} .+\$ 20 \mathrm{~m} .=\$ 65 \mathrm{~m}$.
58. Statement of Cash Flows Nickolas's Nut Farms, Inc. has net cash flows from operating activities for the last year of $\$ 25$ million. The income statement shows that net income is $\$ 15$ million and depreciation expense is $\$ 6$ million. During the year, the change in inventory on the balance sheet was a decrease of $\$ 4$ million, change in accrued wages and taxes was a decrease of $\$ 1$ million and change in accounts payable was a decrease of $\$ 1$ million. At the beginning of the year the balance of accounts receivable was $\$ 5$ million. What was the end of year balance for accounts receivable?
A. $\$ 2$ million
B. $\$ 3$ million
C. $\$ 7$ million
D. $\$ 9$ million

## Cash Flows from Operating Activities

| Net income | $\$ 15 \mathrm{~m}$. |
| :--- | :--- |
| Additions (sources of cash): |  |
| Depreciation 6 m. <br> Decrease in accounts receivable $2 \mathrm{~m}(=\$ 25 \mathrm{~m} .-\$ 15 \mathrm{~m} .-\$ 6 \mathrm{~m} .-\$ 4 \mathrm{~m} .+\$ 1 \mathrm{~m} .-\$ 1 \mathrm{~m})$. <br> Decrease in inventory 4 m <br> Subtractions (uses of cash):  <br> Decrease accrued wages and taxes -1 m. <br> Decrease in accounts payable -1 m.. |  |

Net cash flow from operating activities: $\$ 25 \mathrm{~m}$.

Thus, end of year balance of accounts receivable $=\$ 5 \mathrm{~m} .-\$ 2 \mathrm{~m} .=\$ 3 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
59. Statement of Cash Flows Crispy Corporation has net cash flow from financing activities for the last year of $\$ 20$ million. The company paid $\$ 5$ million in dividends last year. During the year, the change in notes payable on the balance sheet was an increase of $\$ 2$ million, and change in common and preferred stock was an increase of $\$ 3$ million. The end of year balance for long-term debt was $\$ 45$ million. What was their beginning of year balance for long-term debt?
A. $\$ 15$ million
B. $\$ 20$ million
C. $\$ 25$ million
D. $\$ 35$ million

## Cash Flows from Financing Activities

## Additions:

> Increase in notes payable
> Increase in long-term debt
> Increase in common and preferred stock Subtractions:

Pay stock dividends
Net cash flow from financing activities:

```
$ 2m.
    20m. (=$20m.+$5m.-$2m.-3m)
    3m.
- 5m.
```

$\$ 20 \mathrm{~m}$.

Thus, beginning of year balance for long-term debt $=\$ 45-\$ 20 \mathrm{~m}=\$ 25 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
60. Statement of Cash Flows Full Moon Productions Inc. has net cash flow from financing activities for the last year of $\$ 105$ million. The company paid $\$ 15$ million in dividends last year. During the year, the change in notes payable on the balance sheet was an increase of $\$ 40$ million, and change in common and preferred stock was an increase of $\$ 50$ million. The end of year balance for long-term debt was $\$ 50$ million. What was their beginning of year balance for long-term debt?
A. $\$ 5$ million
B. $\$ 20$ million
C. $\$ 30$ million
D. $\$ 35$ million

## Cash Flows from Financing Activities

Additions:
Increase in notes payable $\$ 40 \mathrm{~m}$.
Increase in long-term debt
Increase in common and preferred stock
$30 \mathrm{~m} .(=\$ 105 \mathrm{~m} .+\$ 15 \mathrm{~m} .-\$ 40 \mathrm{~m} .-50 \mathrm{~m})$

Subtractions:
Pay stock dividends $\quad-15 \mathrm{~m}$.
Net cash flow from financing activities:
\$105m.

Thus, beginning of year balance for long-term debt $=\$ 50-\$ 30 \mathrm{~m}=\$ 20 \mathrm{~m}$.
61. Statement of Cash Flows Café Creations Inc. has net cash flow from financing activities for the last year of $\$ 25$ million. The company paid $\$ 15$ million in dividends last year. During the year, the change in notes payable on the balance sheet was a decrease of $\$ 40$ million, and change in common and preferred stock was an increase of $\$ 50$ million. The end of year balance for long-term debt was $\$ 40$ million. What was their beginning of year balance for long-term debt?
A. $\$ 10$ million
B. $\$ 20$ million
C. $\$ 30$ million
D. $\$ 40$ million

## Cash Flows from Financing Activities

## Additions:

Increase in long-term debt
Increase in common and preferred stock
Subtractions:
Decrease in notes payable
Pay stock dividends
Net cash flow from financing activities:
$30 \mathrm{~m} .(=\$ 25 \mathrm{~m} .+\$ 15 \mathrm{~m} .+\$ 40 \mathrm{~m} .-50 \mathrm{~m})$ 50 m .

- 40 m .
- 15 m .
$\$ 25 \mathrm{~m}$.

Thus, beginning of year balance for long-term debt $=\$ 40-\$ 30 \mathrm{~m}=\$ 10 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
62. Free Cash Flow The 2010 income statement for Pete's Pumpkins shows that depreciation expense is $\$ 250$ million, EBIT is $\$ 500$ million, EBT is $\$ 320$ million, and the tax rate is 30 percent. At the beginning of the year, the balance of gross fixed assets was $\$ 1,600$ million and net operating working capital was $\$ 640$ million. At the end of the year gross fixed assets was $\$ 2,000$ million. Pete's free cash flow for the year was $\$ 630$ million. What is their end of year balance for net operating working capital?
A. $\$ 24$ million B.
\$264 million C.
$\$ 654$ million D.
\$1,064 million

Taxes $=\$ 320 \mathrm{~m} . \mathrm{x}(.3)=\$ 96 \mathrm{~m} .=>$ Pete's operating cash flow was: OCF $=$ EBIT - Taxes + Depreciation $=(\$ 500 \mathrm{~m} .-\$ 96 \mathrm{~m} .+\$ 250 \mathrm{~m})=.\$ 654 \mathrm{~m}$.
Pete's free cash flow for 2010 was: $\mathrm{FCF}=$ Operating cash flow - Investment in operating capital $\$ 630 \mathrm{~m} .=\$ 654 \mathrm{~m}$. - Investment in operating capital $=>$ Investment in operating capital $=\$ 654 \mathrm{~m}$. $-\$ 630 \mathrm{~m} .=\$ 24 \mathrm{~m}$.
Accordingly, investment in operating capital for 2010 was: IOC $=$ Gross fixed assets + Net operating working capital $\$ 24 \mathrm{~m} .=(\$ 2,000 \mathrm{~m} .-\$ 1,600 \mathrm{~m})+.($ Ending net operating working capital - \$640m.) => Ending net operating working capital $=\$ 24 \mathrm{~m} .-(\$ 2,000 \mathrm{~m} .-\$ 1,600 \mathrm{~m})+$. $\$ 640 \mathrm{~m} .=\$ 264 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
63. Free Cash Flow The 2010 income statement for Lou's Shoes shows that depreciation expense is $\$ 2$ million, EBIT is $\$ 5$ million, EBT is $\$ 3$ million, and the tax rate is 40 percent. At the beginning of the year, the balance of gross fixed assets was $\$ 16$ million and net operating working capital was $\$ 6$ million. At the end of the year gross fixed assets was $\$ 20$ million. Lou's free cash flow for the year was $\$ 4$ million. What is their end of year balance for net operating working capital?
A. $\$ 1.8$ million
B. $\$ 3.8$ million
C. $\$ 5.8$ million
D. $\$ 12.2$ million

Taxes $=\$ 3 \mathrm{~m} . \mathrm{x}(.4)=\$ 1.2 \mathrm{~m}$. .
Lou's operating cash flow was:
OCF $=$ EBIT - Taxes + Depreciation
$=(\$ 5 \mathrm{~m} .-\$ 1.2 \mathrm{~m} .+\$ 2 \mathrm{~m})=.\$ 5.8 \mathrm{~m}$.
Lou's free cash flow for 2010 was:
FCF $=$ Operating cash flow - Investment in operating capital
$\$ 4 \mathrm{~m}$. $=\$ 5.8 \mathrm{~m}$. - Investment in operating capital
=> Investment in operating capital $=\$ 5.8 \mathrm{~m}$. $-\$ 4 \mathrm{~m}$. $=\$ 1.8 \mathrm{~m}$.
Accordingly, investment in operating capital for 2010 was:
IOC $=$ Gross fixed assets + Net operating working capital
$\$ 1.8 \mathrm{~m} .=(\$ 20 \mathrm{~m} .-\$ 16 \mathrm{~m})+.($ Ending net operating working capital $-\$ 6 \mathrm{~m}$.
$=>$ Ending net operating working capital $=\$ 1.8 \mathrm{~m}$. $-(\$ 20 \mathrm{~m} .-\$ 16 \mathrm{~m})+.\$ 6 \mathrm{~m} .=\$ 3.8 \mathrm{~m}$.
64. Free Cash Flow The 2010 income statement for Paige's Purses shows that depreciation expense is $\$ 10$ million, EBIT is $\$ 25$ million, EBT is $\$ 15$ million, and the tax rate is 30 percent. At the beginning of the year, the balance of gross fixed assets was $\$ 80$ million and net operating working capital was $\$ 30$ million. At the end of the year gross fixed assets was $\$ 100$ million. Paige's free cash flow for the year was $\$ 20$ million. What is their end of year balance for net operating working capital?
A. $\$ 10.5$ million
B. $\$ 14$ million
C. $\$ 20.5$ million
D. $\$ 30.5$ million

Taxes $=\$ 15 \mathrm{~m} . \mathrm{x}(.3)=\$ 4.5 \mathrm{~m} .=>$
Paige's operating cash flow was:
OCF $=$ EBIT - Taxes + Depreciation
$=(\$ 25 \mathrm{~m} .-\$ 4.5 \mathrm{~m} .+\$ 10 \mathrm{~m})=.\$ 30.5 \mathrm{~m}$.
Paige's free cash flow for 2010 was:
FCF = Operating cash flow - Investment in operating capital
$\$ 20 \mathrm{~m} .=\$ 30.5 \mathrm{~m}$. - Investment in operating capital
$=>$ Investment in operating capital $=\$ 30.5 \mathrm{~m}$. $\$ 20 \mathrm{~m}$. $=\$ 10.5 \mathrm{~m}$.
Accordingly, investment in operating capital for 2010 was: IOC
$=$ Gross fixed assets + Net operating working capital
$\$ 10.5 \mathrm{~m} .=(\$ 100 \mathrm{~m} .-\$ 80 \mathrm{~m})+.($ Ending net operating working capital $-\$ 30 \mathrm{~m}$.
$=>$ Ending net operating working capital $=\$ 10.5 \mathrm{~m} .-(\$ 100 \mathrm{~m} .-\$ 80 \mathrm{~m})+.30 \mathrm{~m} .=\$ 20.5 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
65. Free Cash Flow The 2010 income statement for Betty's Barstools shows that depreciation expense is $\$ 100$ million, EBIT is $\$ 400$ million, and taxes are $\$ 120$ million. At the end of the year, the balance of gross fixed assets was $\$ 510$ million. The increase in net operating working capital during the year was $\$ 94$ million. Betty's free cash flow for the year was $\$ 625$ million. What was the beginning of year balance for gross fixed assets?
A. $\$ 359$ million
B. $\$ 380$ million
C. $\$ 849$ million
D. $\$ 1,094$ million

Betty's operating cash flow was:
OCF $=$ EBIT - Taxes + Depreciation
$=(\$ 400 \mathrm{~m}$. $-\$ 120 \mathrm{~m}+\$ 100 \mathrm{~m})=\$ 380 \mathrm{~m}$.
Betty's free cash flow for 2010 was:
FCF $=$ Operating cash flow - Investment in operating capital
$\$ 625 \mathrm{~m} .=\$ 380 \mathrm{~m}$. - Investment in operating capital
$=>$ Investment in operating capital $=\$ 380 \mathrm{~m} .-\$ 625 \mathrm{~m} .=\$-245 \mathrm{~m}$.
Accordingly, investment in operating capital for 2010 was:
IOC $=$ Gross fixed assets + Net operating working capital $\$-245 \mathrm{~m}$.
$=(\$ 510 \mathrm{~m} .-$ Beginning of year gross fixed assets $)+\$ 94 \mathrm{~m}$.
$=>$ Beginning of year gross fixed assets $=510 \mathrm{~m} .-(\$-245 \mathrm{~m}) .+\$ 94 \mathrm{~m} .=\$ 849 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
66. Free Cash Flow The 2010 income statement for John's Gym shows that depreciation expense is $\$ 20$ million, EBIT is $\$ 80$ million, and taxes are $\$ 24$ million. At the end of the year, the balance of gross fixed assets was $\$ 102$ million. The increase in net operating working capital during the year was $\$ 18$ million. John's free cash flow for the year was $\$ 41$ million. What was the beginning of year balance for gross fixed assets?
A. $\$ 43$ million
B. $\$ 85$ million
C. $\$ 84$ million
D. $\$ 163$ million

John's operating cash flow was:
OCF $=$ EBIT - Taxes + Depreciation
$=(\$ 80 \mathrm{~m} .-\$ 24 \mathrm{~m}+\$ 20 \mathrm{~m})=\$ 76 \mathrm{~m}$.
John's free cash flow for 2010 was:
FCF $=$ Operating cash flow - Investment in operating capital
$\$ 41 \mathrm{~m} .=\$ 76 \mathrm{~m}$. - Investment in operating capital
$=>$ Investment in operating capital $=\$ 76 \mathrm{~m} .-\$ 41 \mathrm{~m} .=\$ 35 \mathrm{~m}$.
Accordingly, investment in operating capital for 2010 was: IOC
$=$ Gross fixed assets + Net operating working capital $\$ 35 \mathrm{~m}$. =
(\$102m. - Beginning of year gross fixed assets) + \$18m.
$\Rightarrow$ Beginning of year gross fixed assets $=102 \mathrm{~m} .-\$ 35 \mathrm{~m}+\$ 18 \mathrm{~m} .=\$ 85 \mathrm{~m}$.

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
67. Statement of Retained Earnings Bike and Hike, Inc. started the year with a balance of retained earnings of $\$ 100$ million and ended the year with retained earnings of $\$ 128$ million. The company paid dividends of $\$ 9$ million to the preferred stock holders and $\$ 22$ million to common stock holders. What was Bike and Hike's net income for the year?
A. $\$ 28$ million
B. $\$ 31$ million
C. $\$ 59$ million
D. $\$ 128$ million

Statement of Retained Earnings as of December 31, 2008 (in millions of dollars)
$\underline{2008}$
Balance of Retained Earnings, December 31, $2007 \quad \$ 100 \mathrm{~m}$.
Plus: Net Income for 2008
$59 \mathrm{~m} .(=\$ 128 \mathrm{~m} .+\$ 31 \mathrm{~m} .-\$ 100 \mathrm{~m}$.
Less: Cash Dividends Paid
Preferred Stock $\$ 9 \mathrm{~m}$.
Common Stock $\quad 22 \mathrm{~m}$.
Total Cash Dividends Paid
31 m.
Balance of Retained Earnings, December 31, $2008 \quad \$ 128 \mathrm{~m}$.
68. Statement of Retained Earnings Soccer Starz, Inc. started the year with a balance of retained earnings of $\$ 25$ million and ended the year with retained earnings of $\$ 32$ million. The company paid dividends of $\$ 2$ million to the preferred stock holders and $\$ 6$ million to common stock holders. What was Soccer Starz's net income for the year?
A. $\$ 7$ million
B. $\$ 15$ million
C. $\$ 40$ million
D. $\$ 49$ million

Statement of Retained Earnings as of December 31, 2008 (in millions of dollars)

| $\underline{2008}$ |  |  |
| :---: | :---: | :---: |
| Balance of Retained Earnings, December 31, 2007 | \$ 25 m . |  |
| Plus: Net Income for 2008 | 15 m . | $(=\$ 32 \mathrm{~m} .+\$ 8 \mathrm{~m} .-\$ 25 \mathrm{~m}$. |
| Less: Cash Dividends Paid |  |  |
| Preferred Stock \$ 2m. |  |  |
| Common Stock 6 m . |  |  |
| Total Cash Dividends Paid | 8m. |  |
| Balance of Retained Earnings, December 31, 2008 | \$32m. |  |

69. Statement of Retained Earnings Jamaican Ice Cream Corp. started the year with a balance of retained earnings of $\$ 100$ million. The company reported net income for the year of $\$ 45$ million, paid dividends of $\$ 2$ million to the preferred stock holders and $\$ 15$ million to common stock holders. What is Jamaican Ice Cream's end of year balance in retained earnings?
A. $\$ 38$ million
B. $\$ 55$ million
C. $\$ 128$ million
D. $\$ 162$ million

Statement of Retained Earnings as of December 31, 2008
(in millions of dollars)

## 2008

Balance of Retained Earnings, December 31, 2007
Plus: Net Income for 2008
$\$ 100 \mathrm{~m}$.
Less: Cash Dividends Paid
Preferred Stock \$ 2 m .
Common Stock 15 m .
Total Cash Dividends Paid
Balance of Retained Earnings, December 31, 2008
17 m.
$\$ 128 m .(=\$ 100 m+\$ 45 m-\$ 2 m-\$ 15 m)$
70. Income Statement Listed below is the 2008 income statement for Lamps, Inc.

| Lamps, Inc.Income Statement for Year Ending December 31, 2008(in millions of dollars) |  |
| :---: | :---: |
|  | 2008 |
| Net sales | \$100 |
| Less: Cost of goods sold | 80 |
| Gross profits | 20 |
| Less: Depreciation | 5 |
| Earnings before interest and taxes (EBIT) | 15 |
| Less: Interest | 2 |
| Earnings before taxes (EBT) | 13 |
| Less: Taxes | 5 |
| Net income | \$ 8 |

The CEO of Lamps wants the company to earn a net income of $\$ 12$ million in 2009. Cost of goods sold is expected to be 75 percent of net sales, depreciation expense is not expected to change, interest expense is expected to increase to $\$ 4$ million, and the firm's tax rate will be 40 percent. What is the net sales needed to produce net income of $\$ 12$ million?
A. $\$ 29$ million
B. $\$ 112$ million
C. $\$ 116$ million
D. $\$ 124$ million

| Lamps, Inc. <br> Income Statement for Year Ending December 31, 2009 <br> (in millions of dollars) |  |
| :---: | :---: |
|  | 2009 |
| Net sales | Step 4. \$116 |
| Less: Cost of goods sold | Step 5. 87 |
| Gross profits | Step 3. 29 |
| Less: Depreciation | 5 |
| Earnings before interest and taxes (EBIT) | Step 2. 24 |
| Less: Interest | 4 |
| Earnings before taxes (EBT) | Step 1. 20 |
| Less: Taxes |  |
| Net income | \$ 12 |

Step 1. EBT $(1-\mathrm{t})=$ Net income $=\$ 12 \mathrm{~m}=$ EBT $(1-.4)=>$ EBT $=\$ 12 \mathrm{~m} . /(1-.4)=\$ 20 \mathrm{~m}$.
Step 2. EBIT $=$ EBT + Interest $=\$ 20 \mathrm{~m} .+\$ 4 \mathrm{~m} .=\$ 24 \mathrm{~m}$.
Step 3. Gross profits $=$ EBIT + Depreciation $=\$ 24 \mathrm{~m} .+\$ 5 \mathrm{~m} .=\$ 29 \mathrm{~m}$
Step 4. Net sales $=$ Gross profits $/(1-$ Cost of goods sold percent $)=\$ 29 \mathrm{~m} . /(1 .-.75)=\$ 116 \mathrm{~m}$. Step 5. Cost of goods sold $=$ Sales - Gross profits $=\$ 116 \mathrm{~m} .-\$ 29=\$ 87 \mathrm{~m}$.

Chapter 02 - Reviewing Financial Statements
71. Income Statement You have been given the following information for Halle's Holiday Store Corp. for the year 2008:
net sales $=\$ 50,000,000$;
cost of goods sold $=\$ 35,000,000$; addition
to retained earnings $=\$ 2,000,000$;
dividends paid to preferred and common stockholders $=\$ 3,000,000$;
interest expense $=\$ 3,000,000$.
The firm's tax rate is 30 percent.
In 2009, net sales are expected to increase by $\$ 5$ million, cost of goods sold is expected to be 65 percent of net sales, expensed depreciation is expected to be the same as in 2008, interest expense is expected to be $\$ 2,500,000$,
the tax rate is expected to be 30 percent of EBT, and
dividends paid to preferred and common stockholders will not change.
What is the addition to retained earnings expected in 2009 ?
A. $\$ 2,000,000$
B. $\$ 5,325,000$
C. $\$ 8,447,500$
D. $\$ 10,304,643$

Income Statement for Year Ending December 31, 2008
(in millions of dollars)

|  | $\underline{\mathbf{2 0 0 8}}$ |  |
| :--- | ---: | ---: |
| Net sales (all credit) | $\$ 50,000,000$ |  |
| Less: Cost of goods sold | $\underline{35,000,000}$ |  |
| Gross profits | $\$ 15,000,000-\$ 10,142,857$ | $15,000,000$ |
| Less: Depreciation | $\$ 7,142,857+\$ 3,000,000$ | $\underline{4,857,143}$ |
| Earnings before interest and taxes (EBIT) | $\underline{3,142,857}$ |  |
| Less: Interest | $\$ 5,000,000 /(1-3)$ | $\underline{7,142,857}$ |
| Earnings before taxes (EBT) |  | $\underline{\$ 5,000,000}$ |
| Less: Taxes |  |  |
| Net income | $\$ 3,000,000$ |  |
|  | $\underline{\$ 2,000,000}$ |  |

Income Statement for Year Ending December 31, 2009 (in millions of dollars)

|  |  | $\underline{\mathbf{2 0 0 9}}$ |
| :--- | ---: | ---: |
| Net sales (all credit) | $\$ 50,000,000+\$ 5,000,000$ | $\$ 55,500,000$ |
| Less: Cost of goods sold | $.65 \times \$ 55,500,000$ | $\underline{36,075,000}$ |
| Gross profits | $\underline{19,425,000}$ |  |
| Less: Depreciation | $\underline{4,857,143}$ |  |
| Earnings before interest and taxes (EBIT) | $\underline{2,567,857}$ |  |
| Less: Interest | $12,067,000$ |  |
| Earnings before taxes (EBT) | $\underline{3,620,357}$ |  |
| Less: Taxes (30\%) | $\underline{\$ 8,447,500}$ |  |
| Net income | $\$ 3,000,000$ |  |
|  | $\$ 5,447,500$ |  |
|  |  |  |

AACSB: Analytical
Blooms: Apply
Difficulty: 3 Advanced
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Topic: Understanding Financial Statements

Chapter 02 - Reviewing Financial Statements
72. Free Cash Flow Martha's Moving Van 4U, Inc. had free cash flow during 2008 of $\$ 1$ million, EBIT of $\$ 30$ million, tax expense of $\$ 8$ million, and depreciation of $\$ 4$ million. Using this information, what was Martha's Accounts Payable ending balance in 2008?
A. $\$ 5$ million
B. $\$ 15$ million
C. $\$ 35$ million
D. $\$ 45$ million

Martha's operating cash flow for 2011 was:
OCF = EBIT - Taxes + Depreciation $=(\$ 30 \mathrm{~m} .-\$ 8 \mathrm{~m} .+\$ 4 \mathrm{~m})=.\$ 26 \mathrm{~m}$.
Martha's free cash flow was:
FCF $=$ Operating cash flow - Investment in operating capital
$\$ 1 \mathrm{~m} .=\$ 26 \mathrm{~m}$. - Investment in operating capital
So, Investment in operating capital $=\$ 26 \mathrm{~m}$. $-\$ 1 \mathrm{~m} .=\$ 25 \mathrm{~m}$.
IOC $=$ Gross fixed assets + Net operating working capital
$\$ 25 \mathrm{~m} .=(\$ 40 \mathrm{~m} .-\$ 30 \mathrm{~m})+$. Net operating working capital
$=>$ Net operating working capital $=\$ 25 \mathrm{~m}$. $-(\$ 40 \mathrm{~m} .-\$ 30 \mathrm{~m})=.\$ 15 \mathrm{~m}$.
Net operating working capital $=\$ 15 \mathrm{~m} .=\Delta$ Current assets $-\Delta$ Current liabilities
$\$ 15 \mathrm{~m}$. $=(\$ 130 \mathrm{~m} .-\$ 110 \mathrm{~m})-.\Delta$ Current liabilities
$=>\Delta$ Current liabilities $=(\$ 130 \mathrm{~m} .-\$ 110 \mathrm{~m})-.\$ 15 \mathrm{~m} .=\$ 5 \mathrm{~m}$.
$\Rightarrow 2011$ Current liabilities $=\$ 85 \mathrm{~m} .+\$ 5 \mathrm{~m} .=\$ 90 \mathrm{~m}$.
and 2011 Current liabilities $=$ Accrued wages and taxes + Accounts payable + Notes payable $\$ 90 \mathrm{~m} .=\$ 20 \mathrm{~m} .+$ Accounts payable $+\$ 35 \mathrm{~m}$.
$=>$ Accounts payable $=\$ 908 \mathrm{~m} .-\$ 20 \mathrm{~m} .-\$ 35 \mathrm{~m} .=\$ 35 \mathrm{~m}$.


# Chapter 02 - Reviewing Financial Statements 

AACSB: Analytical
Blooms: Apply
Difficulty: 3 Advanced
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
73. You are evaluating the balance sheet for Goodman's Bees Corporation. From the balance sheet you find the following balances: Cash and marketable securities $=\$ 200,000$, Accounts receivable $=\$ 1,100,000$, Inventory $=\$ 2,000,000$, Accrued wages and taxes $=\$ 500,000$, Accounts payable $=\$ 600,000$, and Notes payable $=\$ 100,000$. Calculate Goodman's Bees' net working capital.
A. \$2,000,000
B. $\$ 2,100,000$
C. $\$ 1,400,000$
D. $\$ 1,900,000$
$(.2 \mathrm{M}+1.1 \mathrm{M}+2.0 \mathrm{M})-(.5 \mathrm{M}+.6 \mathrm{M}+.1 \mathrm{M})=2.1 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.

## Source: 2-1

Topic: Understanding Financial Statements
74. Zoeckler Mowing \& Landscaping's year-end 2011 balance sheet lists current assets of $\$ 350,000$, fixed assets of $\$ 325,000$, current liabilities of $\$ 145,000$, and long-term debt of $\$ 185,000$. Calculate Zoeckler's total stockholders' equity.
A. \$115,000
B. $\$ 490,000$
C. $\$ 345,000$
D. $\$ 500,000$
$[.350+.325]-[.145+.185]=.345 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Source: 2-2
Topic: Understanding Financial Statements
75. Reed's Birdie Shot, Inc.'s 2011 income statement lists the following income and expenses: EBIT $=\$ 550,000$, Interest expense $=\$ 43,000$, and Net income $=\$ 300,000$. Calculate the 2011 Taxes reported on the income statement.
A. $\$ 85,000$
B. $\$ 107,000$
C. $\$ 309,000$
D. $\$ 207,000$
$[.550 \mathrm{M}-.043 \mathrm{M}]-.3 \mathrm{M}=.207 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide. Source: 2-3
Topic: Understanding Financial Statements
76. Reed's Birdie Shot, Inc.'s 2010 income statement lists the following income and expenses: EBIT $=\$ 555,000$, Interest expense $=\$ 178,000$, and Taxes $=\$ 148,000$. Reed's has no preferred stock outstanding and 100,000 shares of common stock outstanding. Calculate the 2010 earnings per share.
A. $\$ 3.49$
B. $\$ 2.29$
C. $\$ 3.14$
D. $\$ 2.79$
$[.555 \mathrm{M}-.178 \mathrm{M}-.148 \mathrm{M}] / .1 \mathrm{M}=\$ 2.29$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Source: 2-4
Topic: Understanding Financial Statements
77. Oakdale Fashions Inc. had $\$ 255,000$ in 2011 taxable income. If the firm paid $\$ 82,100$ in taxes, what is the firm's average tax rate?
A. $34.70 \%$
B. $32.20 \%$
C. $29.90 \%$
D. $28.20 \%$
$82100 / 255000=32.20 \%$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Source: 2-5
Topic: Taxes
78. Hunt Taxidermy, Inc. is concerned about the taxes paid by the company in 2011. In addition to $\$ 36.5$ million of taxable income, the firm received $\$ 1,250,000$ of interest on stateissued bonds and $\$ 400,000$ of dividends on common stock it owns in Hunt Taxidermy, Inc. Calculate Hunt Taxidermy's taxable income.
A. $\$ 40,250,000$
B. $\$ 38,150,000$
C. $\$ 36,900,000$
D. $\$ 36,620,000$
$\$ 36.5 \mathrm{M}+(.3) .4 \mathrm{M}=36.620 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Source: 2-6
Topic: Taxes
79. Ramakrishnan Inc. reported 2008 net income of $\$ 20$ million and depreciation of $\$ 1,500,000$. The top part of Ramakrishnan, Inc.'s 2007 and 2008 balance sheets is listed below (in millions of dollars).

| Current assets: 2008 | 2007 | 2008 | Current liabilities: | 2007 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cash and marketable securities | \$ 15 | \$ 20 | Accrued wages and taxes | \$ 18 | \$ 20 |
| Accounts receivable | 75 | 84 | Accounts payable | 45 |  |
| 50 ( |  |  |  |  |  |
| Inventory | 110 | 121 | Notes payable |  | 40 |
| 45 |  |  |  |  |  |
| Total | \$200 | \$225 | Total |  |  |
| \$115 |  |  |  |  |  |

Calculate the 2008 net cash flow from operating activities for Ramakrishnan, Inc.
A. $\$ 12,500,000$
B. $\$ 10,500,000$
C. $\$ 8,500,000$
D. $\$ 7,100,000$
$20+[1.5+2+5]-[9+11]=\$ 8.5 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-04 Differentiate between accounting income and cash flows.
Source: 2-7
Topic: Accounting Income and Cash Flows
80. In 2011, Usher Sports Shop had cash flows from investing activities of $(\$ 2,150,000)$ and cash flows from financing activities of $(\$ 3,219,000)$. The balance in the firm's cash account was $\$ 980,000$ at the beginning of 2011 and $\$ 1,025,000$ at the end of the year. Calculate Usher Sports Shop's cash flow from operations for 2011.
A. \$6,219,000
B. $\$ 5,414,000$
C. $\$ 4,970,000$
D. $\$ 5,980,000$
$[1,025,000-980,000]=\mathrm{X}-2,150,000-3,219,000 ;=>\mathrm{X}=$ Cash flow from operations $=$ \$5,414,000

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-04 Differentiate between accounting income and cash flows.
Source: 2-8
Topic: Accounting Income and Cash Flows
81. 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 $\$ 52$ million, paid taxes of $\$ 10$ million, and its depreciation expense was $\$ 5$ million. Fields and Struthers' gross fixed assets increased by $\$ 38$ million from 2010 to 2011. The firm's current assets increased by $\$ 20$ million and spontaneous current liabilities increased by $\$ 12$ million. Calculate Fields and Struthers' operating cash flow (OCF), investment in operating capital (IOC) and free cash flow (FCF) for 2011.
A. $\mathrm{OCF}=\$ 42,000,000 ; \mathrm{IOC}=\$ 37,000,000 ; \mathrm{FCF}=\$ 5,000,000$
B. $\mathrm{OCF}=\$ 47,000,000 ; \mathrm{IOC}=\$ 37,000,000 ; \mathrm{FCF}=\$ 10,000,000$
C. $\mathrm{OCF}=\$ 42,000,000 ; \mathrm{IOC}=\$ 46,000,000 ; \mathrm{FCF}=-\$ 4,000,000$
D. $\mathrm{OCF}=\$ 47,000,000 ; \mathrm{IOC}=\$ 46,000,000 ; \mathrm{FCF}=\$ 1,000,000$

OCF $=$ EBIT - Taxes + Depreciation $=(\$ 52 \mathrm{M}-\$ 10 \mathrm{M}+\$ 5 \mathrm{M})=\$ 47 \mathrm{M}$
Investment in operating capital: Gross fixed assets + Net operating working capital $=\$ 38 \mathrm{M}$ $+(\$ 20 \mathrm{M}-\$ 12 \mathrm{M})=\$ 46 \mathrm{M}$ Accordingly, Fields and Struthers' free cash flow for 2008 was:
FCF $=$ Operating cash flow - Investment in operating capital $=\$ 47 \mathrm{M}-\$ 46 \mathrm{M}=\$ 1 \mathrm{M}$

[^9]Chapter 02 - Reviewing Financial Statements
82. Tater and Pepper Corp. reported free cash flows for 2010 of $\$ 20$ million and investment in operating capital of $\$ 15$ million. Tater and Pepper listed $\$ 8$ million in depreciation expense and $\$ 12$ million in taxes on its 2010 income statement. Calculate Tater and Pepper's 2010 EBIT.
A. \$49,000,000
B. $\$ 42,000,000$
C. $\$ 39,000,000$
D. $\$ 47,000,000$

FCF = Operating cash flow - Investment in operating capital; $\$ 20 \mathrm{M}=\mathrm{X}-\$ 15 \mathrm{M} ; \mathrm{X}=\$ 35 \mathrm{M}$
OCF = EBIT - Taxes + Depreciation; $\$ 35 \mathrm{M}=($ EBIT $-\$ 12 \mathrm{M}+\$ 8 \mathrm{M}) ;$ EBIT $=\$ 39 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: 2-10
Topic: Calculating Cash Flows
83. Mr. Husker's Tuxedos, Corp. began the year 2011 with $\$ 205$ million in retained earnings. The firm earned net income of $\$ 30$ million in 2011 and paid $\$ 5$ million to its preferred stockholders and $\$ 12$ million to its common stockholders. What is the year-end 2011 balance in retained earnings for Mr. Husker's Tuxedos?
A. \$193,000,000
B. $\$ 200,000,000$
C. $\$ 213,000,000$
D. $\$ 218,000,000$
$\$ 205 \mathrm{M}+\$ 30 \mathrm{M}-\$ 5 \mathrm{~m}-\$ 12 \mathrm{M}=\$ 218 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Source: 2-11
Topic: Understanding Financial Statements
84. Brenda's Bar and Grill has total assets of $\$ 17$ million of which $\$ 5$ million are current assets. Cash makes up 12 percent of the current assets and accounts receivable makes up another 40 percent of current assets. Brenda's gross plant and equipment has a cost value of $\$ 12$ million and other long-term assets have a cost value of $\$ 1,000,000$. Using this information, what is the balance of inventory and the balance of depreciation on Brenda's Bar and Grill's balance sheet?
A. $\$ 2.4$ million; $\$ 1$ million
B. $\$ 3.4$ million; $\$ 2$ million
C. $\$ 1.4$ million; $\$ 1$ million
D. $\$ 0.4$ million; $\$ 3$ million

Step 1: Find Inventory: CA =5 = Cash $+\mathrm{A} / \mathrm{R}+\operatorname{Inv}=.12 * 5+.40 * 5+$ Inv; $=>\operatorname{Inv}=$ $\$ 2.4 \mathrm{M}$; Step 2: Find Depreciation Expense: TA $=$ CA + FA - Accumulated Depreciation.; 17 $=5+(12+1)$ - Accumulated Depreciation.; $=>$ Accumulated Depreciation $=\$ 1 \mathrm{M}$

AACSB: Analytical<br>Blooms: Apply<br>Difficulty: 2 Intermediate<br>Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.<br>Source: 2-13<br>Topic: Understanding Financial Statements

85. Ed's Tobacco Shop has total assets of $\$ 100$ million. Fifty percent of these assets are financed with debt of which $\$ 37$ million is current liabilities. The firm has no preferred stock but the balance in common stock and paid-in surplus is $\$ 32$ million. Using this information what is the balance for long-term debt and retained earnings on Ed's Tobacco Shop's balance sheet?
A. $\$ 18$ million; $\$ 27$ million
B. $\$ 12$ million; $\$ 12$ million
C. $\$ 14$ million; $\$ 29$ million
D. $\$ 13$ million; $\$ 18$ million

Step1: Find long-term debt: TL = CL + long-term debt $=.5 * 100=50=37+$ long-term debt; long-term debt $=\$ 13$ million; Step2: Find RE: Total equity $=.5 * 100=50=$ CS + P - I-S + $\mathrm{RE}=32+\mathrm{RE} ; \mathrm{RE}=\$ 18$ million

[^10]86. Muffin's Masonry, Inc.'s balance sheet lists net fixed assets as $\$ 16$ million. The fixed assets could currently be sold for $\$ 17$ million. Muffin's current balance sheet shows current liabilities of $\$ 5.5$ million and net working capital of $\$ 6.5$ million. If all the current accounts were liquidated today, the company would receive $\$ 10.25$ million cash after paying $\$ 5.5$ million in liabilities. What is the book value of Muffin's Masonry's assets today? What is the market value of these assets?
A. Book Value: $\$ 28 \mathrm{M}$; Market Value: $\$ 32.75 \mathrm{M}$
B. Book Value: $\$ 32 \mathrm{M}$; Market Value: $\$ 42.25 \mathrm{M}$
C. Book Value: $\$ 32 \mathrm{M}$; Market Value: $\$ 32.75 \mathrm{M}$
D. Book Value: \$28M; Market Value: \$42.25M

Step 1. Find CA (book value) $:=\mathrm{CA}-\mathrm{CL}=\mathrm{NWC} ;=>\mathrm{CA}($ book value $)=6.5 \mathrm{M}+5.5 \mathrm{M}$ $=\$ 12 \mathrm{M}$
Step 2. Find TA (book value): TA $=\operatorname{Net} \mathrm{FA}+\mathrm{CA}=\$ 16 \mathrm{M}+\$ 12 \mathrm{M} .=\$ 28 \mathrm{M}$.
Step 3.Find CA (market value): NWC (market) + CL $=\$ 10.25+\$ 5.5 \mathrm{M}=\$ 15.75 \mathrm{M}$
Step 4. Find TA (market value): Net FA $+C A=\$ 17 \mathrm{M}+\$ 15.75 \mathrm{M}=\$ 32.75 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-02 Differentiate between book (or accounting) value and market value.
Source: 2-15
Topic: Book vs. Market Value
87. You have been given the following information for Corky's Bedding Corp.:

Net sales = \$15,250,000;
Cost of goods sold $=\$ 5,750,000$;
Addition to retained earnings $=\$ 4,000,000$;
Dividends paid to preferred and common stockholders $=\$ 995,000$;
Interest expense $=\$ 1,150,000$.
The firm's tax rate is 30 percent. Calculate the depreciation expense for Corky's Bedding Corp.
A. $\$ 1,210,000$
B. $\$ 1,970,000$
C. $\$ 1,520,000$
D. $\$ 1,725,000$

Step 1: $\mathrm{NI}=$ Dividends + Addition to $\mathrm{RE}=4 \mathrm{M}+.995 \mathrm{M}=\$ 4.995 \mathrm{M}$
Step 2: NI = EBT (1-tax rate $)=>\mathrm{EBT}=\mathrm{NI} /(1-$ tax rate $)=\$ 4.995 \mathrm{M} /(1-.30)=\$ 7.14 \mathrm{M}$
Step 3: EBIT - Interest $=$ EBT $=>$ EBIT $=\$ 7.14 \mathrm{M}+\$ 1.15 \mathrm{M}=\$ 8.29 \mathrm{M}$
Step 4: Gross profits $=$ Net sales - COGS $=\$ 15.25 \mathrm{M}-\$ 5.75 \mathrm{M}=\$ 9.5 \mathrm{M}$
Step 5: Gross profits - Depreciation $=$ EBIT $=>$ Depreciation $=\$ 9.5 \mathrm{M}-\$ 8.29 \mathrm{M}=\$ 1.21 \mathrm{M}$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Source: 2-17
Topic: Understanding Financial Statements
88. Dogs 4 U Corporation has net cash flow from financing activities for the last year of $\$ 10$ million. The company paid $\$ 8$ million in dividends last year. During the year, the change in notes payable on the balance was $\$ 9$ million, and change in common and preferred stock was $\$ 0$ million. The end of year balance for long-term debt was $\$ 44$ million. Calculate the beginning of year balance for long-term debt.
A. $\$ 37$ million
B. $\$ 34$ million
C. $\$ 33$ million
D. $\$ 35$ million
$\$ 10=\$ 9-\$ 8-\$ 0+$ Change in long-term debt; $=>$ change in long-term debt $=\$ 9=$ Ending Bal - Change in long-term debt; $=>$ Beg balance of long-term debt $=\$ 35$

[^11]89. The 2011 income statement for Duffy's Pest Control shows that depreciation expense is $\$ 180$ million, EBIT is $\$ 420$ million, EBT is $\$ 240$ million, and the tax rate is 30 percent. At the beginning of the year, the balance of gross fixed assets was $\$ 1,500$ million and net operating working capital was $\$ 500$ million. At the end of the year gross fixed assets was $\$ 1,803$ million. Duffy's free cash flow for the year was $\$ 425$ million. Calculate the end of year balance for net operating working capital.
A. $\$ 403$ million
B. $\$ 300$ million
C. $\$ 203$ million
D. $\$ 103$ million

Step 1: Find OCF: OCF = \$420-( $\$ 240$ * . 3 ) + \$180 = \$528; Step 2: Find Investment in operating capital: $\mathrm{FCF}=\$ 425=\$ 528$ - Investment in Op Cap; Investment in operating capital $=\$ 103$; Step 3: Find Ending level of net op. working cap: $\$ 103=(\$ 1803-\$ 1500)+($ Ending net op. working capital $-\$ 500$ ); Ending net op. working capital $=\$ 300$

[^12]90. The CEO of Tom and Sue's wants the company to earn a net income of $\$ 3.25$ million in 2010. Cost of goods sold is expected to be 60 percent of net sales, depreciation expense is $\$ 2.9$ million, interest expense is expected to increase to $\$ 1.050$ million, and the firm's tax rate will be 30 percent. Calculate the net sales needed to produce net income of $\$ 3.25$ million.
A. $\$ 26.02$ million
B. $\$ 29.36$ million
C. $\$ 21.48$ million
D. $\$ 28.25$ million

Work backwards (up) the income statement: $\mathrm{EBT}=3.25 / 1-.3=\$ 4.64 \mathrm{M} ; \mathrm{EBIT}=\$ 4.64 \mathrm{M}+$ $\$ 1.05 \mathrm{M}=\$ 5.69 \mathrm{M}$; Gross Profits $=\$ 5.69 \mathrm{M}+\$ 2.9=\$ 8.59 \mathrm{M}$; Net sales $=\$ 8.59 /(1-.6)=$ \$21.475M

AACSB: Analytical
Blooms: Apply
Difficulty: 3 Advanced
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Source: 2-29
Topic: Understanding Financial Statements
91. All of the following would be a result of changing to the MACRS method of depreciation except $\qquad$ .
A. Higher depreciation expense
B. Lower taxes in the early years of a project's life
C. Lower taxable income in the early years of a project's life
D. All of these.

AACSB: Analytical
Blooms: Understand
Difficulty: 1 Basic
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Source: NEW
Topic: Understanding Financial Statements
92. Which of the following is NOT a source of cash?
A. The firm reduces its inventory.
B. The firm pays off some of its long-term debt.
C. The firm has positive net income.
D. The firm sells more common stock.

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AACSB: Analytical
Blooms: Analyze
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows. Source: NEW
Topic: Calculating Cash Flows
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93. Which of the following is a use of cash?
A. The firm takes its depreciation expense.
B. The firm sells some of its fixed assets. C.

The firm issues more long-term debt.
D. The firm decreases its accrued wages and taxes.

AACSB: Analytical
Blooms: Analyze
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: NEW
Topic: Calculating Cash Flows
94. Is it possible for a firm to have positive net income and yet to have cash flow problems?
A. No, this is impossible since net income increases the firm's cash.
B. Yes, this can occur when a firm is growing very rapidly.
C. Yes, this is possible if the firm window-dressed its financial statements.
D. No, this is impossible since net income and cash are highly correlated.

[^13]95. All of the following are cash flows from operations except $\qquad$ .
A. Increases or decreases in cash
B. Net Income
C. Depreciation
D. Increases or decreases in accounts payable

AACSB: Analytical
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: NEW
Topic: Calculating Cash Flows
96. All of the following are cash flows from financing except $a(n)$ $\qquad$ .
A. Increase in accounts payable
B. Issuing stock
C. Stock repurchases
D. Paying dividends

AACSB: Analytical
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: NEW
Topic: Calculating Cash Flows
97. Cash flows available to pay the firm's stockholders and debt holders 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 is referred to as
A. Operating cash flow
B. Net operating working capital
C. Free cash flow
D. None of these.

AACSB: Analytical
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: NEW
Topic: Calculating Cash Flows
98. Investment in operating capital is $\qquad$ .
A. The change in assets plus the change in current liabilities
B. The change in gross fixed assets plus depreciation
C. The change in gross fixed assets plus the change in free cash flow
D. None of these.

AACSB: Analytical
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: NEW
Topic: Calculating Cash Flows
99. A firm had EBIT of $\$ 1,000$, paid taxes of $\$ 225$, expensed depreciation at $\$ 13$, and its gross fixed assets increased by $\$ 25$. What was the firm's operating cash flow?
A. $\$ 763$
B. $\$ 737$
C. $\$ 813$
D. $\$ 788$
$\$ 1,000-\$ 225+\$ 13=\$ 788$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: NEW
Topic: Calculating Cash Flows
100. Which of the following is an example of a capital structure?
A. $15 \%$ current assets and $85 \%$ fixed assets
B. $10 \%$ current liabilities and $90 \%$ long-term debt
C. $20 \%$ debt and $80 \%$ equity
D. None of these.

AACSB: Analytical
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide. Source: NEW
Topic: Understanding Financial Statements
101. Lemmon Inc. lists fixed assets of $\$ 100$ on its balance sheet. The firm's fixed assets have recently been appraised at $\$ 140$. The firm's balance sheet also lists current assets at $\$ 15$.
Current assets were appraised at $\$ 16.5$. Current liabilities book and market values stand at $\$ 12$ and the firm's long-term debt is $\$ 40$. Calculate the market value of the firm's stockholders' equity.
A. $\$ 156.5$
B. $\$ 112.50$
C. $\$ 104.50$
D. $\$ 144.50$
$[\$ 140+\$ 16.5]-\$ 12-\$ 40=\$ 104.5$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Source: NEW
Topic: Understanding Financial Statements
102. A firm has operating income of $\$ 1,000$, depreciation expense of $\$ 185$ and its investment in operating capital is $\$ 400$. The firm is $100 \%$ equity financed and has a $35 \%$ tax rate. What is the firm's operating cash flow?
A. $\$ 725$
B. $\$ 795$
C. $\$ 835$
D. $\$ 965$
$[\$ 1000-\$ 350+\$ 185]=\$ 835$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-02 Differentiate between book (or accounting) value and market value.
Source: NEW
Topic: Book vs. Market Value
103. All of the following are reasons that one should be cautious in interpreting financial statements except $\qquad$ .
A. Firms can take steps to over- or understate earnings at various times.
B. It is difficult to compare two firms that use different depreciation methods.
C. Financial managers have quite a bit of latitude in using accounting rules to manage their reported earnings.
D. All of these are reasons to be cautious in interpreting financial statements.

## AACSB: Analytical

Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-06 Observe cautions that should be taken when examining financial statements.
Source: NEW
Topic: Financial Statement Cautions
104. Which of the following statements is correct?
A. The bottom line on the statement of cash flows equals the change in the retained earnings on the balance sheet.
B. The reason the statement of cash flows is important is because cash is what pays the firm's obligations, not accounting profit.
C. If a firm has accounting profit, its cash account will always increase.
D. All of these statements are correct.

AACSB: Analytical
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-04 Differentiate between accounting income and cash flows.
Source: NEW
Topic: Accounting Income and Cash Flows
105. ABC Inc. has $\$ 100$ in cash on its balance at the end of 2009. During 2010, the firm issued $\$ 450$ in common stock, reduced its notes payable by $\$ 40$, purchased fixed assets in the amount of $\$ 750$ and had cash flows from operating activities of $\$ 315$. How much cash did ABC Inc. have on its balance sheet at the end of 2010?
A. $\$ 75$
B. $\$ 140$
C. $\$ 225$
D. $-\$ 25$

$$
100+315-40-750+450=\$ 75
$$

## AACSB: Analytical

Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Source: NEW
Topic: Taxes
106. LLV Inc. originally forecasted the following financial data for next year: Sales $=\$ 1,000$, Cost of goods sold $=\$ 675$ and Interest expense $=\$ 90$. The firm believes that COGS will always be $67.5 \%$ of sales. Due to increased global demand, the firm is now projecting that sales will be $20 \%$ higher than the original forecast. What is the additional net income (as compared to the original forecast) the firm can expect assuming a $35 \%$ tax rate?
A. $\$ 59.45$
B. $\$ 195.00$
C. $\$ 42.25$
D. $\$ 74.00$

Step 1: Original forecasted NI $=[(1,000-675)-90](1-.35)=152.75$; Step 2: NI under increase in sales $=[(1,200-(.675 * 1,200)-90](1-.35)=195$; Additional NI $=195-152.75$ $=42.25$

AACSB: Analytical
Blooms: Apply
Difficulty: 3 Advanced
Learning Objective: 02-02 Differentiate between book (or accounting) value and market value. Source: NEW
Topic: Book vs. Market Value
107. LLV Inc. originally forecasted the following financial data for next year: Sales $=\$ 1,000$, Cost of goods sold $=\$ 710$ and Interest expense $=\$ 95$. The firm believes that COGS will always be $71 \%$ of sales. Due to pressure from shareholders, the firm wants to achieve a net income of $\$ 150$. Assuming the interest expense will remain the same, how large must sales be to achieve this goal? Assume a $35 \%$ tax rate.
A. $\$ 1,403.82$
B. $\$ 1,3009.18$
C. $\$ 1,123.34$
D. $\$ 1,296.51$
$150 /(1-.35)=\mathrm{EBT}=230.77 ; \mathrm{EBT}+\mathrm{Int} \operatorname{Exp}=\mathrm{EBIT}=325.77 ;$ EBIT $/(1-.71)=$ Sales $=$ $1,123.34$

AACSB: Analytical
Blooms: Apply
Difficulty: 3 Advanced
Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
Source: NEW
Topic: Understanding Financial Statements
108. A firm has sales of $\$ 690$, EBIT of $\$ 300$, depreciation of $\$ 40$ and fixed assets increased by $\$ 265$. If the firm's tax rate is $40 \%$ and there were no increases in net operating working capital, what is the firm's free cash flow?
A. $\$ 15$
B. $\$ 75$
C. $-\$ 45$
D. $-\$ 55$
$[300-(300 * .4)+40]-265=\mathrm{FCF}=-\$ 45$

AACSB: Analytical
Blooms: Apply
Difficulty: 2 Intermediate
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: NEW
Topic: Calculating Cash Flows

## Chapter 02 - Reviewing Financial Statements

109. GW Inc. had $\$ 800$ million in retained earnings at the beginning of the year. During the year, the firm paid $\$ .75$ per share dividend and generated $\$ 1.92$ earnings per share. The firm has 100 million shares outstanding. At the end of year, what was the level of retained earnings for GW?
A. $\$ 725$ million
B. $\$ 917$ million
C. $\$ 882$ million
D. $\$ 807$ million

$$
800 \mathrm{M}+[1.92 * 100 \mathrm{M}]-[0.75 * 100 \mathrm{M}]=\$ 917 \mathrm{M}
$$

AACSB: Analytical
Blooms: Apply
Difficulty: 3 Advanced
Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Source: NEW
Topic: Calculating Cash Flows

## Essay Questions

Chapter 02 - Reviewing Financial Statements
110. LG 5 2-21 Statement of Cash Flows Use the balance sheet and income statement below to construct a statement of cash flows for Betty's Bakery Corp.

| Eetty's Bakery CorporationBalance Sheet as of December 31,2007 and 2008(in millions of dollars) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2007 | 2008 |  | 2007 | 2008 |
| Assets |  |  | Liabilities \& Equity |  |  |
| Current assets: |  |  | Current liabilities: |  |  |
| Cash auxd marketable securities | \$ 12 | \$ 5 | Accrued wages and taxes |  |  |
| Accounts receivable | 21 | 15 | Accounts payable | 18 | 16 |
| Inventory | 25 | 30 | Notes payable | 35 | 30 |
| Total | \$ 58 | \$ 50 | Total | \$58 | \$ 50 |
| Fixed assets: |  |  | Long-term debt: | \$ 40 | \$ 45 |
| Gross plant and equipment | \$ 60 | \$80 | Stockholders' equity: |  |  |
| Less: Depreciation | 10 | 15 | Preferred stock (1 million shares) | \$ 1 | \$ 1 |
| Net plant and equipment | \$ 50 | \$ 65 | Common stock and paid-in sumplus | 4 | 4 |
| Other long-term |  |  | (4 million shares) |  |  |
| assets | 20 | 25 | Retaiused eamings | 25 | 40 |
| Total | \$ 70 | \$90 | Total | \$30 | \$ 45 |
| Total assets | \$128 | \$140 | Total liabilities and equity | \$128 | \$140 |

Chapter 02 - Reviewing Financial Statements

| Betty's Bakery CorporationIncome Statement for Years Ending December 31, 2007 and 2008(in millions of dollars) |  |  |
| :---: | :---: | :---: |
|  | 2007 | 2008 |
| Net sales | \$ 33 | \$ 40.5 |
| Less: Cost of goods sold | 8 | 11 |
| Gross profits | 25 | 29.5 |
| Less: Depreciation | 2 | 2 |
| Eamings before interest and taxes (EBIT) | 23 | 27.5 |
| Less: Interest | 1 | 1.5 |
| Eamings before taxes (EBT) | 22 | 26 |
| Less: Taxes | 9 | 10 |
| Net income | \$13 | \$16. |
| Less: Preferred stock dividends | \$ 1 | \$ 1 |
| Net income available to common stockholders | \$12 | \$15 |
| Less: Common stock dividends | \$ 1 | \$ 2 |
| Addition to retained eamings | \$11 | \$13 |
| Per (common) share data: |  |  |
| Eamings per share (EPS) | \$6.75 | \$4.00 |
| Dividends per share (DPS) | \$0.25 | \$0.50 |
| Book value per share (BV) | \$22.00 | \$23.75 |
| Market value (price) per share (MV) | \$24.00 | \$24.25 |

$\underline{2008}$
A. Cash Flows from Operating Activities
Net income ..... \$ 16
Additions (sources of cash):
Depreciation ..... 2
Decrease in accounts receivable ..... 6
Subtractions (uses of cash):
Decrease accrued wages and taxes ..... -1
Decrease in accounts payable ..... -2
Increase in inventory ..... -5
Net cash flow from operating activities: ..... \$16
B. Cash Flows from Investing Activities
Subtractions:
Increase fixed assets ..... -\$20
Increase in other long-term assets ..... 0
Net cash flow from investing activities: ..... -\$20
C. Cash Flows from Financing Activities
Additions:
Increase in long-term debt ..... \$ 5
Increase in common and preferred stock ..... 0
Subtractions:
Decrease in notes payable ..... -5
Pay preferred stock dividends ..... -1
Pay common stock dividends ..... $-2$
Net cash flow from financing activities: ..... \$-3
D. Net Change in Cash and Marketable Securities ..... $-\$ 7$
AACSB: Analytical
Blooms: Apply

Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
Topic: Calculating Cash Flows
111. When might earnings management become an ethical consideration?

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 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, they 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. Ethical considerations:
Earnings management could become an ethical issue if managers started applying GAAP inconsistently throughout accounting periods in order to "manage" the financial reports given to outsiders and/or insiders. One example could be the smoothing mentioned above.

[^14]112. How do taxes influence how corporate managers' and investors' structure transactions and capitalize their companies?

Many firms pay out much of their earnings in taxes. The focus on this chapter has been income taxes, but there are other taxes that a company must pay, too. Many companies will look for transactions with tax advantages. One such example would be to finance their company with debt versus equity. Interest payments are deductible from income taxes, whereas dividend payments are not.

AACSB: Reflective Thinking
Blooms: Create
Blooms: Evaluate
Difficulty: 2 Intermediate
Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
Topic: Taxes
113. How would you explain to a friend why market value of a firm is more important to an investor than book value of the firm?

What assets can be sold (market value) for might differ than the historical costs that are reflected on the balance sheet. What the equity can be sold for (market value or price per share) might differ from the balances reflected in the stockholder equity section of the balance sheet. Financial managers and investors are often more concerned with the value of physical and financial assets in the market place and find those numbers more relevant than what is reported on the balance sheet.
Feed back: NOTE: (was an end of chapter question with a new twist)

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AACSB: Reflective Thinking
Blooms: Understand
Difficulty: 2 Intermediate
Learning Objective: 02-02 Differentiate between book (or accounting) value and market value.
Topic: Book vs. Market Value
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114. 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 debt holders 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.

[^15]115. 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 no profits for a firm. For example, cash is the most liquid of all assets, but it earns no 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.

[^16]
[^0]:    AACSB: Reflective Thinking
    Blooms: Understand
    Difficulty: 1 Basic
    Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
    Topic: Understanding Financial Statements

[^1]:    AACSB: Reflective Thinking
    Blooms: Understand
    Difficulty: 1 Basic
    Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
    Topic: Understanding Financial Statements

[^2]:    AACSB: Reflective Thinking
    Blooms: Understand
    Difficulty: 1 Basic
    Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
    Topic: Taxes

[^3]:    AACSB: Reflective Thinking
    Blooms: Understand
    Difficulty: 2 Intermediate
    Learning Objective: 02-06 Observe cautions that should be taken when examining financial statements.
    Topic: Financial Statement Cautions

[^4]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 1 Basic
    Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide. Topic: Understanding Financial Statements

[^5]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 1 Basic
    Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions. Topic: Taxes

[^6]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 1 Basic
    Learning Objective: 02-04 Differentiate between accounting income and cash flows.
    Topic: Accounting Income and Cash Flows

[^7]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 2 Intermediate
    Learning Objective: 02-02 Differentiate between book (or accounting) value and market value.
    Topic: Book vs. Market Value

[^8]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 2 Intermediate
    Learning Objective: 02-03 Explain how taxes influence corporate managers' and investors' decisions.
    Topic: Taxes

[^9]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 1 Basic
    Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows. Source: 2-9
    Topic: Calculating Cash Flows

[^10]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 2 Intermediate
    Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide.
    Source: 2-14
    Topic: Understanding Financial Statements

[^11]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 2 Intermediate
    Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
    Source: 2-24
    Topic: Calculating Cash Flows

[^12]:    AACSB: Analytical
    Blooms: Apply
    Difficulty: 2 Intermediate
    Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
    Source: 2-25
    Topic: Calculating Cash Flows

[^13]:    AACSB: Analytical
    Blooms: Understand
    Difficulty: 1 Basic
    Learning Objective: 02-04 Differentiate between accounting income and cash flows.
    Source: NEW
    Topic: Accounting Income and Cash Flows

[^14]:    AACSB: Ethics
    Blooms: Create
    Blooms: Evaluate
    Difficulty: 2 Intermediate
    Learning Objective: 02-06 Observe cautions that should be taken when examining financial statements.
    Topic: Financial Statement Cautions

[^15]:    AACSB: Analytical
    Blooms: Understand
    Difficulty: 2 Intermediate
    Learning Objective: 02-05 Demonstrate how to use a firm's financial statements to calculate its cash flows.
    Source: NEW
    Topic: Calculating Cash Flows

[^16]:    AACSB: Analytical
    Blooms: Understand
    Difficulty: 1 Basic
    Learning Objective: 02-01 Recall the major financial statements that firms must prepare and provide. Source: NEW
    Topic: Understanding Financial Statements

