

## **Chapter 02**

### **Financial Statements, Taxes, and Cash Flow**

#### **Multiple Choice Questions**

1. Which one of the following is the financial statement that shows the accounting value of a firm's equity as of a particular date?
  - A. income statement
  - B. creditor's statement
  - C. balance sheet
  - D. statement of cash flows
  - E. dividend statement
  
2. Net working capital is defined as:
  - A. total liabilities minus shareholders' equity.
  - B. current liabilities minus shareholders' equity.
  - C. fixed assets minus long-term liabilities.
  - D. total assets minus total liabilities.
  - E. current assets minus current liabilities.
  
3. The common set of standards and procedures by which audited financial statements are prepared is known as the:
  - A. matching principle.
  - B. cash flow identity.
  - C. Generally Accepted Accounting Principles.
  - D. Financial Accounting Reporting Principles.
  - E. Standard Accounting Value Guidelines.
  
4. Which one of the following is the financial statement that summarizes a firm's revenue and expenses over a period of time?
  - A. income statement
  - B. balance sheet
  - C. statement of cash flows
  - D. tax reconciliation statement
  - E. market value report

5. Noncash items refer to:

- A. accrued expenses.
- B. inventory items purchased using credit.
- C. the ownership of intangible assets such as patents.
- D. expenses which do not directly affect cash flows.
- E. sales which are made using store credit.

6. The percentage of the next dollar you earn that must be paid in taxes is referred to as the \_\_\_\_\_ tax rate.

- A. mean
- B. residual
- C. total
- D. average
- E. marginal

7. The \_\_\_\_\_ tax rate is equal to total taxes divided by total taxable income.

- A. deductible
- B. residual
- C. total
- D. average
- E. marginal

8. The cash flow of a firm which is available for distribution to the firm's creditors and stockholders is called the:

- A. operating cash flow.
- B. net capital spending.
- C. net working capital.
- D. cash flow from assets.
- E. cash flow to stockholders.

9. Which term relates to the cash flow which results from a firm's ongoing, normal business activities?

- A. operating cash flow
- B. capital spending
- C. net working capital
- D. cash flow from assets
- E. cash flow to creditors

10. Cash flow from assets is also known as the firm's:

- A. capital structure.
- B. equity structure.
- C. hidden cash flow.
- D. free cash flow.
- E. historical cash flow.

11. The cash flow related to interest payments less any net new borrowing is called the:

- A. operating cash flow.
- B. capital spending cash flow.
- C. net working capital.
- D. cash flow from assets.
- E. cash flow to creditors.

12. Cash flow to stockholders is defined as:

- A. the total amount of interest and dividends paid during the past year.
- B. the change in total equity over the past year.
- C. cash flow from assets plus the cash flow to creditors.
- D. operating cash flow minus the cash flow to creditors.
- E. dividend payments less net new equity raised.

13. Which one of the following is classified as an intangible fixed asset?

- A. accounts receivable
- B. production equipment
- C. building
- D. trademark
- E. inventory

14. Which of the following are current assets?

- I. patent
- II. Inventory
- III. accounts payable
- IV. cash
- A. I and III only
- B. II and IV only
- C. I, II, and IV only
- D. I, II and III only
- E. II, III, and IV only

15. Which one of the following is included in a firm's market value but yet is excluded from the firm's accounting value?

- A. real estate investment
- B. good reputation of the company
- C. equipment owned by the firm
- D. money due from a customer
- E. an item held by the firm for future sale

16. Which of the following are included in current liabilities?

- I. note payable to a supplier in eight months
- II. amount due from a customer next month
- III. account payable to a supplier that is due next week
- IV. loan payable to the bank in fourteen months
- A. I and III only
- B. II and III only
- C. I, II, and III only
- D. I, III, and IV only
- E. I, II, III, and IV

17. Which one of the following will increase the value of a firm's net working capital?

- A. using cash to pay a supplier
- B. depreciating an asset
- C. collecting an accounts receivable
- D. purchasing inventory on credit
- E. selling inventory at a profit

18. Which one of the following statements concerning net working capital is correct?

- A. Net working capital increases when inventory is purchased with cash.
- B. Net working capital must be a positive value.
- C. Total assets must increase if net working capital increases.
- D. A decrease in the cash balance also decreases net working capital.
- E. Net working capital is the amount of cash a firm currently has available for spending.

19. Which one of the following statements concerning net working capital is correct?

- A. The lower the value of net working capital the greater the ability of a firm to meet its current obligations.
- B. An increase in net working capital must also increase current assets.
- C. Net working capital increases when inventory is sold for cash at a profit.
- D. Firms with equal amounts of net working capital are also equally liquid.
- E. Net working capital is a part of the operating cash flow.

20. Which one of the following accounts is the most liquid?

- A. inventory
- B. building
- C. accounts receivable
- D. equipment
- E. land

21. Which one of the following represents the most liquid asset?

- A. \$100 account receivable that is discounted and collected for \$96 today
- B. \$100 of inventory which is sold today on credit for \$103
- C. \$100 of inventory which is discounted and sold for \$97 cash today
- D. \$100 of inventory that is sold today for \$100 cash
- E. \$100 accounts receivable that will be collected in full next week

22. Which one of the following statements related to liquidity is correct?

- A. Liquid assets tend to earn a high rate of return.
- B. Liquid assets are valuable to a firm.
- C. Liquid assets are defined as assets that can be sold quickly regardless of the price obtained.
- D. Inventory is more liquid than accounts receivable because inventory is tangible.
- E. Any asset that can be sold within the next year is considered liquid.

23. Shareholders' equity:

- A. increases in value anytime total assets increases.
- B. is equal to total assets plus total liabilities.
- C. decreases whenever new shares of stock are issued.
- D. includes long-term debt, preferred stock, and common stock.
- E. represents the residual value of a firm.

24. The higher the degree of financial leverage employed by a firm, the:

- A. higher the probability that the firm will encounter financial distress.
- B. lower the amount of debt incurred.
- C. less debt a firm has per dollar of total assets.
- D. higher the number of outstanding shares of stock.
- E. lower the balance in accounts payable.

25. The book value of a firm is:

- A. equivalent to the firm's market value provided that the firm has some fixed assets.
- B. based on historical cost.
- C. generally greater than the market value when fixed assets are included.
- D. more of a financial than an accounting valuation.
- E. adjusted to the market value whenever the market value exceeds the stated book value.

26. Which of the following are included in the market value of a firm but are excluded from the firm's book value?

- I. value of management skills
  - II. value of a copyright
  - III. value of the firm's reputation
  - IV. value of employee's experience
- A. I only
  - B. II only
  - C. III and IV only
  - D. I, II, and III only
  - E. I, III, and IV only

27. You recently purchased a grocery store. At the time of the purchase, the store's market value equaled its book value. The purchase included the building, the fixtures, and the inventory. Which one of the following is most apt to cause the market value of this store to be lower than the book value?

- A. a sudden and unexpected increase in inflation
- B. the replacement of old inventory items with more desirable products
- C. improvements to the surrounding area by other store owners
- D. construction of a new restricted access highway located between the store and the surrounding residential areas
- E. addition of a stop light at the main entrance to the store's parking lot

28. Which one of the following is true according to Generally Accepted Accounting Principles?

- A. Depreciation may or may not be recorded at management's discretion.
- B. Income is recorded based on the matching principle.
- C. Costs are recorded based on the realization principle.
- D. Depreciation is recorded based on the recognition principle.
- E. Costs of goods sold are recorded based on the matching principle.

29. Which one of these is most apt to be a fixed cost?

- A. raw materials
- B. manufacturing wages
- C. management bonuses
- D. office salaries
- E. shipping and freight

30. Which one of the following costs is most apt to be a fixed cost?

- A. production labor cost
- B. depreciation
- C. raw materials
- D. utilities
- E. sales commissions

31. Which of the following are expenses for accounting purposes but are not operating cash flows for financial purposes?

- I. interest expense
- II. taxes
- III. costs of goods sold
- IV. depreciation
- A. IV only
- B. II and IV only
- C. I and III only
- D. I and IV only
- E. I, II, and IV only

32. Which one of the following statements related to an income statement is correct? Assume accrual accounting is used.

- A. The addition to retained earnings is equal to net income plus dividends paid.
- B. Credit sales are recorded on the income statement when the cash from the sale is collected.
- C. The labor costs for producing a product are expensed when the product is sold.
- D. Interest is a non-cash expense.
- E. Depreciation increases the marginal tax rate.

33. Which one of the following statements related to taxes is correct?

- A. The marginal tax rate must be equal to or lower than the average tax rate for a firm.
- B. The tax for a firm is computed by multiplying the firm's current marginal tax rate times the taxable income.
- C. Additional income is taxed at a firm's average tax rate.
- D. The marginal tax rate is higher than the average tax rate in a flat-rate tax system.
- E. The marginal tax rate for a firm can be either higher or lower than the average tax rate.

34. As of 2011, which one of the following statements concerning U.S. corporate income taxes is correct?

- A. The largest corporations have an average tax rate of 39 percent.
- B. The lowest marginal rate is 25 percent.
- C. A firm's tax is computed on an incremental basis.
- D. A firm's marginal tax rate will generally be lower than its average tax rate once the firm's income exceeds \$50,000.
- E. When analyzing a new project, the average tax rate should be used.



35. Depreciation:

- A. reduces both taxes and net income.
- B. increases the net fixed assets as shown on the balance sheet.
- C. reduces both the net fixed assets and the costs of a firm.
- D. is a noncash expense which increases the net income.
- E. decreases net fixed assets, net income, and operating cash flows.

36. Which one of the following statements related to an income statement is correct?

- A. Interest expense increases the amount of tax due.
- B. Depreciation does not affect taxes since it is a non-cash expense.
- C. Net income is distributed to dividends and paid-in surplus.
- D. Taxes reduce both net income and operating cash flow.
- E. Interest expense is included in operating cash flow.

37. Which one of the following statements is correct concerning a corporation with taxable income of \$125,000?

- A. Net income minus dividends paid will equal the ending retained earnings for the year.
- B. An increase in depreciation will increase the operating cash flow.
- C. Net income divided by the number of shares outstanding will equal the dividends per share.
- D. Interest paid will be included in both net income and operating cash flow.
- E. An increase in the tax rate will increase both net income and operating cash flow.

38. Which one of the following will increase the cash flow from assets, all else equal?

- A. decrease in cash flow to stockholders
- B. decrease in operating cash flow
- C. increase in the change in net working capital
- D. decrease in cash flow to creditors
- E. decrease in net capital spending

39. For a tax-paying firm, an increase in \_\_\_\_\_ will cause the cash flow from assets to increase.

- A. depreciation
- B. net capital spending
- C. change in net working capital
- D. taxes
- E. production costs

40. Which one of the following must be true if a firm had a negative cash flow from assets?

- A. The firm borrowed money.
- B. The firm acquired new fixed assets.
- C. The firm had a net loss for the period.
- D. The firm utilized outside funding.
- E. Newly issued shares of stock were sold.

41. An increase in the depreciation expense will do which of the following?

- I. increase net income
  - II. decrease net income
  - III. increase the cash flow from assets
  - IV. decrease the cash flow from assets
- A. I only
  - B. II only
  - C. I and III only
  - D. II and III only
  - E. II and IV only

42. Which one of the following is NOT included in cash flow from assets?

- A. accounts payable
- B. inventory
- C. sales
- D. interest expense
- E. cash account

43. Net capital spending:

- A. is equal to ending net fixed assets minus beginning net fixed assets.
- B. is equal to zero if the decrease in the net fixed assets is equal to the depreciation expense.
- C. reflects the net changes in total assets over a stated period of time.
- D. is equivalent to the cash flow from assets minus the operating cash flow minus the change in net working capital.
- E. is equal to the net change in the current accounts.

44. Which one of the following statements related to the cash flow to creditors is correct?

- A. If the cash flow to creditors is positive then the firm must have borrowed more money than it repaid.
- B. If the cash flow to creditors is negative then the firm must have a negative cash flow from assets.
- C. A positive cash flow to creditors represents a net cash outflow from the firm.
- D. A positive cash flow to creditors means that a firm has increased its long-term debt.
- E. If the cash flow to creditors is zero, then a firm has no long-term debt.

45. A positive cash flow to stockholders indicates which one of the following with certainty?

- A. The dividends paid exceeded the net new equity raised.
- B. The amount of the sale of common stock exceeded the amount of dividends paid.
- C. No dividends were distributed but new shares of stock were sold.
- D. Both the cash flow to assets and the cash flow to creditors must be negative.
- E. Both the cash flow to assets and the cash flow to creditors must be positive.

46. A firm has \$520 in inventory, \$1,860 in fixed assets, \$190 in accounts receivables, \$210 in accounts payable, and \$70 in cash. What is the amount of the current assets?

- A. \$710
- B. \$780
- C. \$990
- D. \$2,430
- E. \$2,640

47. A firm has net working capital of \$640. Long-term debt is \$4,180, total assets are \$6,230, and fixed assets are \$3,910. What is the amount of the total liabilities?

- A. \$2,050
- B. \$2,690
- C. \$4,130
- D. \$5,590
- E. \$5,860

48. A firm has common stock of \$6,200, paid-in surplus of \$9,100, total liabilities of \$8,400, current assets of \$5,900, and fixed assets of \$21,200. What is the amount of the shareholders' equity?

- A. \$6,900
- B. \$15,300
- C. \$18,700
- D. \$23,700
- E. \$35,500

49. Your firm has total assets of \$4,900, fixed assets of \$3,200, long-term debt of \$2,900, and short-term debt of \$1,400. What is the amount of net working capital?

- A. -\$100
- B. \$300
- C. \$600
- D. \$1,700
- E. \$1,800

50. Bonner Collision has shareholders' equity of \$141,800. The firm owes a total of \$126,000 of which 60 percent is payable within the next year. The firm net fixed assets of \$161,900. What is the amount of the net working capital?

- A. \$25,300
- B. \$30,300
- C. \$75,600
- D. \$86,300
- E. \$111,500

51. Four years ago, Velvet Purses purchased a mailing machine at a cost of \$176,000. This equipment is currently valued at \$64,500 on today's balance sheet but could actually be sold for \$58,900. This is the only fixed asset the firm owns. Net working capital is \$57,200 and long-term debt is \$111,300. What is the book value of shareholders' equity?

- A. \$4,800
- B. \$7,700
- C. \$10,400
- D. \$222,600
- E. \$233,000

52. Jake owns The Corner Market which he is trying to sell so that he can retire and travel. The Corner Market owns the building in which it is located. This building was built at a cost of \$647,000 and is currently appraised at \$819,000. The counters and fixtures originally cost \$148,000 and are currently valued at \$65,000. The inventory is valued on the balance sheet at \$319,000 and has a retail market value equal to 1.2 times its cost. Jake expects the store to collect 98 percent of the \$21,700 in accounts receivable. The firm has \$26,800 in cash and has total debt of \$414,700. What is the market value of this firm?

- A. \$857,634
- B. \$900,166
- C. \$919,000
- D. \$1,314,866
- E. \$1,333,700

53. Jensen Enterprises paid \$1,300 in dividends and \$920 in interest this past year. Common stock increased by \$1,200 and retained earnings decreased by \$310. What is the net income for the year?

- A. -\$210
- B. \$990
- C. \$1,610
- D. \$1,910
- E. \$2,190

54. Andre's Bakery has sales of \$687,000 with costs of \$492,000. Interest expense is \$26,000 and depreciation is \$42,000. The tax rate is 35 percent. What is the net income?

- A. \$42,750
- B. \$44,450
- C. \$82,550
- D. \$86,450
- E. \$124,550

55. Kaylor Equipment Rental paid \$75 in dividends and \$511 in interest expense. The addition to retained earnings is \$418 and net new equity is \$500. The tax rate is 35 percent. Sales are \$15,900 and depreciation is \$680. What are the earnings before interest and taxes?

- A. \$589.46
- B. \$1,269.46
- C. \$1,331.54
- D. \$1,951.54
- E. \$1,949.46

56. Given the tax rates as shown, what is the average tax rate for a firm with taxable income of \$311,360?

<u>Taxable Income</u>	<u>Tax Rate</u>
\$0 - 50,000	15%
50,001 - 75,000	25%
75,001 - 100,000	34%
100,001 - 335,000	39%

- A. 28.25 percent
- B. 31.09 percent
- C. 33.62 percent
- D. 35.48 percent
- E. 39.00 percent

57. The tax rates are as shown. Nevada Mining currently has taxable income of \$97,800. How much additional tax will the firm owe if taxable income increases by \$21,000?

<u>Taxable Income</u>	<u>Tax Rate</u>
\$0 - 50,000	15%
50,001 - 75,000	25%
75,001 - 100,000	34%
100,001 - 335,000	39%

- A. \$8,080
- B. \$8,130
- C. \$8,155
- D. \$8,170
- E. \$8,190

58. Winston Industries had sales of \$843,800 and costs of \$609,900. The firm paid \$38,200 in interest and \$18,000 in dividends. It also increased retained earnings by \$62,138 for the year. The depreciation was \$76,400. What is the average tax rate?

- A. 32.83 percent
- B. 33.33 percent
- C. 38.17 percent
- D. 43.39 percent
- E. 48.87 percent

59. Crandall Oil has total sales of \$1,349,800 and costs of \$903,500. Depreciation is \$42,700 and the tax rate is 34 percent. The firm does not have any interest expense. What is the operating cash flow?

- A. \$129,152
- B. \$171,852
- C. \$179,924
- D. \$281,417
- E. \$309,076

60. Nielsen Auto Parts had beginning net fixed assets of \$218,470 and ending net fixed assets of \$209,411. During the year, assets with a combined book value of \$6,943 were sold. Depreciation for the year was \$42,822. What is the amount of net capital spending?

- A. \$33,763
- B. \$40,706
- C. \$58,218
- D. \$65,161
- E. \$67,408

61. At the beginning of the year, a firm had current assets of \$121,306 and current liabilities of \$124,509. At the end of the year, the current assets were \$122,418 and the current liabilities were \$103,718. What is the change in net working capital?

- A. -\$19,679
- B. -\$11,503
- C. -\$9,387
- D. \$1,809
- E. \$21,903

62. At the beginning of the year, the long-term debt of a firm was \$72,918 and total debt was \$138,407. At the end of the year, long-term debt was \$68,219 and total debt was \$145,838. The interest paid was \$6,430. What is the amount of the cash flow to creditors?

- A. -\$18,348
- B. -\$1,001
- C. \$11,129
- D. \$13,861
- E. \$19,172

63. Adelson's Electric had beginning long-term debt of \$42,511 and ending long-term debt of \$48,919. The beginning and ending total debt balances were \$84,652 and \$78,613, respectively. The interest paid was \$4,767. What is the amount of the cash flow to creditors?

- A. -\$1,641
- B. -\$1,272
- C. \$1,272
- D. \$7,418
- E. \$11,175



64. The Daily News had net income of \$121,600 of which 40 percent was distributed to the shareholders as dividends. During the year, the company sold \$75,000 worth of common stock. What is the cash flow to stockholders?

- A. -\$75,000
- B. -\$26,360
- C. -\$2,040
- D. \$123,640
- E. \$147,960

65. The Lakeside Inn had operating cash flow of \$48,450. Depreciation was \$6,700 and interest paid was \$2,480. A net total of \$2,620 was paid on long-term debt. The firm spent \$24,000 on fixed assets and decreased net working capital by \$1,330. What is the amount of the cash flow to stockholders?

- A. \$5,100
- B. \$7,830
- C. \$18,020
- D. \$19,998
- E. \$20,680

Star Interiors  
2012 Income Statement  
(\$ in millions)

Net sales	\$21,415
Cost of goods sold	16,408
Depreciation	<u>1,611</u>
Earnings before interest and taxes	3,396
Interest paid	<u>1,282</u>
Taxable Income	\$2,114
Less: Taxes	<u>740</u>
Net income	<u>\$1,374</u>

Star Interiors  
2011 and 2012 Balance Sheets  
(\$ in millions)

	2011	2012		2011	2012
Cash	\$668	\$297	Accounts payable	\$1,694	\$1,532
Accounts receivable	1,611	1,527	Notes payable	2,500	0
Inventory	3,848	2,947	Total	<u>\$4,194</u>	<u>\$1,532</u>
Total	<u>\$6,127</u>	<u>\$4,771</u>	Long-term debt	9,800	10,650
Net fixed assets	<u>17,489</u>	<u>17,107</u>	Common stock	7,500	7,000
			Retained earnings	<u>2,122</u>	<u>2,696</u>
Total assets	<u>\$23,616</u>	<u>\$21,878</u>	Total liab. & equity	<u>\$23,616</u>	<u>\$21,878</u>

66. What is the change in the net working capital from 2011 to 2012?

- A. -\$1,194
- B. \$1,306
- C. \$1,887
- D. \$4,780
- E. \$5,172

67. What is the amount of the noncash expenses for 2012?

- A. \$740
- B. \$1,282
- C. \$1,333
- D. \$1,611
- E. \$2,351

68. What is the amount of the net capital spending for 2012?

- A. -\$382
- B. \$1,229
- C. \$1,804
- D. \$2,375
- E. \$2,516

69. What is the operating cash flow for 2012?

- A. \$2,114
- B. \$2,900
- C. \$2,985
- D. \$3,536
- E. \$4,267

70. What is the cash flow from assets for 2012?

- A. \$1,732
- B. \$2,247
- C. \$2,961
- D. \$3,915
- E. \$4,267

71. What is the amount of net new borrowing for 2012?

- A. -\$1,812
- B. -\$1,738
- C. \$240
- D. \$662
- E. \$850

72. What is the cash flow to creditors for 2012?

- A. -\$353
- B. -\$210
- C. \$300
- D. \$432
- E. \$527

73. What is the amount of dividends paid in 2012?

- A. \$0
- B. \$574
- C. \$800
- D. \$2,013
- E. \$2,174

74. What is the cash flow to stockholders for 2012?

- A. -\$500
- B. -\$800
- C. \$500
- D. \$1,300
- E. \$2,100

M & M Foods

	2011	2012
Sales	\$5,831	\$6,423
COGS	3,670	4,109
Interest	291	280
Depreciation	125	122
Cash	250	313
Accounts receivables	1,092	1,162
Current liabilities	717	1,051
Inventory	1,495	1,521
Long-term debt	2,400	1,100
Net fixed assets	4,006	4,123
Common stock	1,900	2,100
Taxes	590	670

75. What is the net working capital for 2012?

- A. -\$175
- B. \$338
- C. \$1,262
- D. \$1,945
- E. \$4,941

76. What is the change in net working capital from 2011 to 2012?

- A. -\$175
- B. -\$70
- C. \$125
- D. \$240
- E. \$315

77. What is the net capital spending for 2012?

- A. \$117
- B. \$239
- C. \$257
- D. \$338
- E. \$421

78. What is the operating cash flow for 2012?

- A. \$1,226
- B. \$1,367
- C. \$1,644
- D. \$1,766
- E. \$1,823

79. What is the cash flow from assets for 2012?

- A. \$1,230
- B. \$1,580
- C. \$1,770
- D. \$1,810
- E. \$1,980

80. What is net new borrowing for 2012?

- A. -\$1,300
- B. -\$1,020
- C. \$880
- D. \$1,020
- E. \$1,300

81. What is the cash flow to creditors for 2012?

- A. -\$1,020
- B. -\$1,100
- C. \$280
- D. \$1,580
- E. \$1,760

82. What is the cash flow to stockholders for 2012?

- A. \$0
- B. \$133
- C. \$268
- D. \$1,709
- E. \$1,515

	<u>2012</u>
Cost of goods sold	\$4,878
Interest	238
Dividends	420
Depreciation	789
Change in retained earnings	631
Tax rate	34%

83. What is the taxable income for 2012?

- A. \$1,051.00
- B. \$1,367.78
- C. \$1,592.42
- D. \$2,776.41
- E. \$3,091.18

84. What is the operating cash flow for 2012?

- A. \$2,078.00
- B. \$2,122.42
- C. \$2,462.58
- D. \$2,662.00
- E. \$2,741.42

**Essay Questions**

85. Assume you are the financial officer of a major firm. The president of the firm has just stated that she wishes to reduce the firm's investment in current assets since those assets provide little, if any, return to the firm. How would you respond to this statement?

86. As long as a firm maintains a positive cash balance, why is it essential to review the firm's cash flows?

87. The managers of a firm wish to expand the firm's operations and are trying to determine the amount of debt financing the firm should obtain versus the amount of equity financing that should be raised. The managers have asked you to explain the effects that both of these forms of financing would have on the cash flows of the firm. Write a short response to this request.

88. Discuss the difference between book values and market values and explain which one is more important to the financial manager and why.

89. Assume you are a credit manager in charge of approving commercial loans to business firms. Identify three aspects of a firm's cash flows you would review and explain the type of information you hope to gain from reviewing each of those five aspects.



**Multiple Choice Questions**

90. Beach Front Industries has sales of \$546,000, costs of \$295,000, depreciation expense of \$37,000, interest expense of \$15,000, and a tax rate of 32 percent. The firm paid \$59,000 in cash dividends. What is the addition to retained earnings?

- A. \$76,320
- B. \$81,700
- C. \$95,200
- D. \$103,460
- E. \$121,680

91. The Widget Co. purchased new machinery three years ago for \$4 million. The machinery can be sold to the Roman Co. today for \$2 million. The Widget Co.'s current balance sheet shows net fixed assets of \$2,500,000, current liabilities of \$1,375,000, and net working capital of \$725,000. If all the current assets were liquidated today, the company would receive \$1.9 million in cash. The book value of the Widget Co.'s assets today is \_\_\_\_\_ and the market value of those assets is \_\_\_\_\_.

- A. \$4,600,000; \$3,900,000
- B. \$4,600,000; \$3,125,000
- C. \$5,000,000; \$3,125,000
- D. \$5,000,000; \$3,900,000
- E. \$6,500,000; \$3,900,000

92. Boyer Enterprises had \$200,000 in 2011 taxable income. What is the firm's average tax rate based on the rates shown in the following table?

Taxable income	Tax rate
\$0 – 50,000	15%
50,001 – 75,000	25%
75,001 – 100,000	34%
101,000 – 335,000	39%

- A. 28.25 percent
- B. 30.63 percent
- C. 32.48 percent
- D. 36.50 percent
- E. 39.00 percent

93. Webster World has sales of \$12,900, costs of \$5,800, depreciation expense of \$1,100, and interest expense of \$700. What is the operating cash flow if the tax rate is 32 percent?

- A. \$4,704
- B. \$5,749
- C. \$5,404
- D. \$7,036
- E. \$7,100

94. The Blue Bonnet's 2011 balance sheet showed net fixed assets of \$2.2 million, and the 2012 balance sheet showed net fixed assets of \$2.6 million. The company's income statement showed a depreciation expense of \$900,000. What was the amount of the net capital spending for 2012?

- A. -\$500,000
- B. \$400,000
- C. \$1,300,000
- D. \$1,700,000
- E. \$1,800,000

95. The 2011 balance sheet of Global Tours showed current assets of \$1,360 and current liabilities of \$940. The 2012 balance sheet showed current assets of \$1,640 and current liabilities of \$1,140. What was the change in net working capital for 2012?

- A. \$80
- B. \$170
- C. \$190
- D. \$880
- E. \$920

96. The 2011 balance sheet of The Beach Shoppe showed long-term debt of \$2.1 million, and the 2012 balance sheet showed long-term debt of \$2.3 million. The 2012 income statement showed an interest expense of \$250,000. What was the cash flow to creditors for 2012?

- A. -\$200,000
- B. -\$150,000
- C. \$50,000
- D. \$200,000
- E. \$450,000

97. The 2011 balance sheet of The Sports Store showed \$800,000 in the common stock account and \$6.7 million in the additional paid-in surplus account. The 2012 balance sheet showed \$872,000 and \$8 million in the same two accounts, respectively. The company paid out \$600,000 in cash dividends during 2012. What is the cash flow to stockholders for 2012?

- A. -\$1,372,000
- B. -\$772,000
- C. -\$628,000
- D. \$372,000
- E. \$1,972,000

98. Suppose you are given the following information for Bayside Bakery: sales = \$30,000; costs = \$15,000; addition to retained earnings = \$4,221; dividends paid = \$469; interest expense = \$1,300; tax rate = 30 percent. What is the amount of the depreciation expense?

- A. \$4,820
- B. \$5,500
- C. \$7,000
- D. \$8,180
- E. \$9,500

99. Dee Dee's Marina is obligated to pay its creditors \$6,400 today. The firm's assets have a current market value of \$5,900. What is the current market value of the shareholders' equity?

- A. -\$600
- B. -\$500
- C. \$0
- D. \$500
- E. \$600

100. During 2012, RIT Corp. had sales of \$565,600. Costs of goods sold, administrative and selling expenses, and depreciation expenses were \$476,000, \$58,800, and \$58,800, respectively. In addition, the company had an interest expense of \$112,000 and a tax rate of 32 percent. What is the operating cash flow for 2012? Ignore any tax loss carry-back or carry-forward provisions.

- A. \$17,920
- B. \$21,840
- C. \$30,800
- D. \$52,600
- E. \$77,840

## Chapter 02 Financial Statements, Taxes, and Cash Flow **Answer Key**

### Multiple Choice Questions

1. Which one of the following is the financial statement that shows the accounting value of a firm's equity as of a particular date?

- A. income statement
- B. creditor's statement
- C. balance sheet**
- D. statement of cash flows
- E. dividend statement

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Balance sheet

2. Net working capital is defined as:

- A. total liabilities minus shareholders' equity.
- B. current liabilities minus shareholders' equity.
- C. fixed assets minus long-term liabilities.
- D. total assets minus total liabilities.
- E. current assets minus current liabilities.**

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Net working capital

3. The common set of standards and procedures by which audited financial statements are prepared is known as the:

- A. matching principle.
- B. cash flow identity.
- C. Generally Accepted Accounting Principles.**
- D. Financial Accounting Reporting Principles.
- E. Standard Accounting Value Guidelines.

Refer to section 2.1

*AACSB: N/A*  
*Bloom's: Knowledge*  
*Difficulty: Basic*  
*Learning Objective: 2-1*  
*Section: 2.1*  
*Topic: GAAP*

4. Which one of the following is the financial statement that summarizes a firm's revenue and expenses over a period of time?

- A. income statement**
- B. balance sheet
- C. statement of cash flows
- D. tax reconciliation statement
- E. market value report

Refer to section 2.2

*AACSB: N/A*  
*Bloom's: Knowledge*  
*Difficulty: Basic*  
*Learning Objective: 2-2*  
*Section: 2.2*  
*Topic: Income statement*

5. Noncash items refer to:

- A. accrued expenses.
- B. inventory items purchased using credit.
- C. the ownership of intangible assets such as patents.
- D.** expenses which do not directly affect cash flows.
- E. sales which are made using store credit.

Refer to section 2.2

*AACSB: N/A*  
*Bloom's: Knowledge*  
*Difficulty: Basic*  
*Learning Objective: 2-2*  
*Section: 2.2*  
*Topic: Noncash items*

6. The percentage of the next dollar you earn that must be paid in taxes is referred to as the \_\_\_\_\_ tax rate.

- A. mean
- B. residual
- C. total
- D. average
- E.** marginal

Refer to section 2.3

*AACSB: N/A*  
*Bloom's: Knowledge*  
*Difficulty: Basic*  
*Learning Objective: 2-3*  
*Section: 2.3*  
*Topic: Marginal tax rate*

7. The \_\_\_\_\_ tax rate is equal to total taxes divided by total taxable income.

- A. deductible
- B. residual
- C. total
- D.** average
- E. marginal

Refer to section 2.3

AACSB: N/A

Bloom's: Knowledge

Difficulty: Basic

Learning Objective: 2-3

Section: 2.3

Topic: Average tax rate

8. The cash flow of a firm which is available for distribution to the firm's creditors and stockholders is called the:

- A. operating cash flow.
- B. net capital spending.
- C. net working capital.
- D.** cash flow from assets.
- E. cash flow to stockholders.

Refer to section 2.4

AACSB: N/A

Bloom's: Knowledge

Difficulty: Basic

Learning Objective: 2-4

Section: 2.4

Topic: Cash flow from assets

9. Which term relates to the cash flow which results from a firm's ongoing, normal business activities?

- A. operating cash flow
- B. capital spending
- C. net working capital
- D. cash flow from assets
- E. cash flow to creditors

Refer to section 2.4

*AACSB: N/A*

*Bloom's: Knowledge*

*Difficulty: Basic*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Operating cash flow*

10. Cash flow from assets is also known as the firm's:

- A. capital structure.
- B. equity structure.
- C. hidden cash flow.
- D. free cash flow.
- E. historical cash flow.

Refer to section 2.4

*AACSB: N/A*

*Bloom's: Knowledge*

*Difficulty: Basic*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Free cash flow*



11. The cash flow related to interest payments less any net new borrowing is called the:

- A. operating cash flow.
- B. capital spending cash flow.
- C. net working capital.
- D. cash flow from assets.
- E.** cash flow to creditors.

Refer to section 2.4

*AACSB: N/A*  
*Bloom's: Knowledge*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to creditors*

12. Cash flow to stockholders is defined as:

- A. the total amount of interest and dividends paid during the past year.
- B. the change in total equity over the past year.
- C. cash flow from assets plus the cash flow to creditors.
- D. operating cash flow minus the cash flow to creditors.
- E.** dividend payments less net new equity raised.

Refer to section 2.4

*AACSB: N/A*  
*Bloom's: Knowledge*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to stockholders*

13. Which one of the following is classified as an intangible fixed asset?

- A. accounts receivable
- B. production equipment
- C. building
- D.** trademark
- E. inventory

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Intangible fixed asset

14. Which of the following are current assets?

- I. patent
  - II. Inventory
  - III. accounts payable
  - IV. cash
- A. I and III only
  - B.** II and IV only
  - C. I, II, and IV only
  - D. I, II and III only
  - E. II, III, and IV only

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Current assets

15. Which one of the following is included in a firm's market value but yet is excluded from the firm's accounting value?

- A. real estate investment
- B. good reputation of the company**
- C. equipment owned by the firm
- D. money due from a customer
- E. an item held by the firm for future sale

Refer to section 2.1

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Market value

16. Which of the following are included in current liabilities?

- I. note payable to a supplier in eight months
- II. amount due from a customer next month
- III. account payable to a supplier that is due next week
- IV. loan payable to the bank in fourteen months
- A. I and III only**
- B. II and III only
- C. I, II, and III only
- D. I, III, and IV only
- E. I, II, III, and IV

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Current liabilities

17. Which one of the following will increase the value of a firm's net working capital?

- A. using cash to pay a supplier
- B. depreciating an asset
- C. collecting an accounts receivable
- D. purchasing inventory on credit
- E.** selling inventory at a profit

Refer to section 2.1

AACSB: N/A

Bloom's: Comprehension

Difficulty: Intermediate

Learning Objective: 2-1

Section: 2.1

Topic: Net working capital

18. Which one of the following statements concerning net working capital is correct?

- A. Net working capital increases when inventory is purchased with cash.
- B. Net working capital must be a positive value.
- C. Total assets must increase if net working capital increases.
- D.** A decrease in the cash balance also decreases net working capital.
- E. Net working capital is the amount of cash a firm currently has available for spending.

Refer to section 2.1

AACSB: N/A

Bloom's: Application

Difficulty: Intermediate

Learning Objective: 2-1

Section: 2.1

Topic: Net working capital

19. Which one of the following statements concerning net working capital is correct?
- A. The lower the value of net working capital the greater the ability of a firm to meet its current obligations.
  - B. An increase in net working capital must also increase current assets.
  - C.** Net working capital increases when inventory is sold for cash at a profit.
  - D. Firms with equal amounts of net working capital are also equally liquid.
  - E. Net working capital is a part of the operating cash flow.

Refer to section 2.1

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Intermediate  
Learning Objective: 2-1  
Section: 2.1  
Topic: Net working capital

20. Which one of the following accounts is the most liquid?
- A. inventory
  - B. building
  - C.** accounts receivable
  - D. equipment
  - E. land

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Liquidity

21. Which one of the following represents the most liquid asset?

- A. \$100 account receivable that is discounted and collected for \$96 today
- B. \$100 of inventory which is sold today on credit for \$103
- C. \$100 of inventory which is discounted and sold for \$97 cash today
- D.** \$100 of inventory that is sold today for \$100 cash
- E. \$100 accounts receivable that will be collected in full next week

Refer to section 2.1

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Liquidity

22. Which one of the following statements related to liquidity is correct?

- A. Liquid assets tend to earn a high rate of return.
- B.** Liquid assets are valuable to a firm.
- C. Liquid assets are defined as assets that can be sold quickly regardless of the price obtained.
- D. Inventory is more liquid than accounts receivable because inventory is tangible.
- E. Any asset that can be sold within the next year is considered liquid.

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Liquidity

23. Shareholders' equity:

- A. increases in value anytime total assets increases.
- B. is equal to total assets plus total liabilities.
- C. decreases whenever new shares of stock are issued.
- D. includes long-term debt, preferred stock, and common stock.
- E. represents the residual value of a firm.

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Shareholders' equity

24. The higher the degree of financial leverage employed by a firm, the:

- A. higher the probability that the firm will encounter financial distress.
- B. lower the amount of debt incurred.
- C. less debt a firm has per dollar of total assets.
- D. higher the number of outstanding shares of stock.
- E. lower the balance in accounts payable.

Refer to section 2.1

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Intermediate  
Learning Objective: 2-1  
Section: 2.1  
Topic: Financial leverage

25. The book value of a firm is:

- A. equivalent to the firm's market value provided that the firm has some fixed assets.
- B. based on historical cost.**
- C. generally greater than the market value when fixed assets are included.
- D. more of a financial than an accounting valuation.
- E. adjusted to the market value whenever the market value exceeds the stated book value.

Refer to section 2.1

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Book value

26. Which of the following are included in the market value of a firm but are excluded from the firm's book value?

- I. value of management skills
  - II. value of a copyright
  - III. value of the firm's reputation
  - IV. value of employee's experience
- A. I only
  - B. II only
  - C. III and IV only
  - D. I, II, and III only
  - E. I, III, and IV only**

Refer to section 2.1

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-1  
Section: 2.1  
Topic: Market and book value



27. You recently purchased a grocery store. At the time of the purchase, the store's market value equaled its book value. The purchase included the building, the fixtures, and the inventory. Which one of the following is most apt to cause the market value of this store to be lower than the book value?

- A. a sudden and unexpected increase in inflation
- B. the replacement of old inventory items with more desirable products
- C. improvements to the surrounding area by other store owners
- D.** construction of a new restricted access highway located between the store and the surrounding residential areas
- E. addition of a stop light at the main entrance to the store's parking lot

Refer to section 2.1

*AACSB: N/A*

*Bloom's: Comprehension*

*Difficulty: Intermediate*

*Learning Objective: 2-1*

*Section: 2.1*

*Topic: Market and book value*

28. Which one of the following is true according to Generally Accepted Accounting Principles?

- A. Depreciation may or may not be recorded at management's discretion.
- B. Income is recorded based on the matching principle.
- C. Costs are recorded based on the realization principle.
- D. Depreciation is recorded based on the recognition principle.
- E.** Costs of goods sold are recorded based on the matching principle.

Refer to section 2.2

*AACSB: N/A*

*Bloom's: Knowledge*

*Difficulty: Basic*

*Learning Objective: 2-2*

*Section: 2.2*

*Topic: GAAP*

29. Which one of these is most apt to be a fixed cost?

- A. raw materials
- B. manufacturing wages
- C. management bonuses
- D.** office salaries
- E. shipping and freight

Refer to section 2.2

*AACSB: N/A*

*Bloom's: Knowledge*

*Difficulty: Basic*

*Learning Objective: 2-2*

*Section: 2.2*

*Topic: Fixed cost*

30. Which one of the following costs is most apt to be a fixed cost?

- A. production labor cost
- B.** depreciation
- C. raw materials
- D. utilities
- E. sales commissions

Refer to section 2.2

*AACSB: N/A*

*Bloom's: Knowledge*

*Difficulty: Basic*

*Learning Objective: 2-2*

*Section: 2.2*

*Topic: Fixed cost*

31. Which of the following are expenses for accounting purposes but are not operating cash flows for financial purposes?

- I. interest expense
- II. taxes
- III. costs of goods sold
- IV. depreciation
- A. IV only
- B. II and IV only
- C. I and III only
- D.** I and IV only
- E. I, II, and IV only

Refer to sections 2.2 and 2.4

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Basic  
Learning Objective: 2-2 and 2-4  
Section: 2.2 and 2.4  
Topic: Accounting versus cash flow

32. Which one of the following statements related to an income statement is correct? Assume accrual accounting is used.

- A. The addition to retained earnings is equal to net income plus dividends paid.
- B. Credit sales are recorded on the income statement when the cash from the sale is collected.
- C.** The labor costs for producing a product are expensed when the product is sold.
- D. Interest is a non-cash expense.
- E. Depreciation increases the marginal tax rate.

Refer to sections 2.2 and 2.3

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Intermediate  
Learning Objective: 2-2 and 2-3  
Section: 2.2 and 2.3  
Topic: Income statement

33. Which one of the following statements related to taxes is correct?

- A. The marginal tax rate must be equal to or lower than the average tax rate for a firm.
- B. The tax for a firm is computed by multiplying the firm's current marginal tax rate times the taxable income.
- C. Additional income is taxed at a firm's average tax rate.
- D. The marginal tax rate is higher than the average tax rate in a flat-rate tax system
- E. The marginal tax rate for a firm can be either higher or lower than the average tax rate.**

Refer to section 2.3

AACSB: N/A  
Bloom's: Knowledge  
Difficulty: Intermediate  
Learning Objective: 2-3  
Section: 2.3  
Topic: Tax rates

34. As of 2011, which one of the following statements concerning U.S. corporate income taxes is correct?

- A. The largest corporations have an average tax rate of 39 percent.
- B. The lowest marginal rate is 25 percent.
- C. A firm's tax is computed on an incremental basis.**
- D. A firm's marginal tax rate will generally be lower than its average tax rate once the firm's income exceeds \$50,000.
- E. When analyzing a new project, the average tax rate should be used.

Refer to section 2.3

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Intermediate  
Learning Objective: 2-3  
Section: 2.3  
Topic: Taxes

35. Depreciation:

- A. reduces both taxes and net income.
- B. increases the net fixed assets as shown on the balance sheet.
- C. reduces both the net fixed assets and the costs of a firm.
- D. is a noncash expense which increases the net income.
- E. decreases net fixed assets, net income, and operating cash flows.

Refer to sections 2.2 and 2.4

AACSB: N/A

Bloom's: Comprehension

Difficulty: Intermediate

Learning Objective: 2-2 and 2-4

Section: 2.2 and 2.4

Topic: Depreciation

36. Which one of the following statements related to an income statement is correct?

- A. Interest expense increases the amount of tax due.
- B. Depreciation does not affect taxes since it is a non-cash expense.
- C. Net income is distributed to dividends and paid-in surplus.
- D. Taxes reduce both net income and operating cash flow.
- E. Interest expense is included in operating cash flow.

Refer to sections 2.2 and 2.4

AACSB: N/A

Bloom's: Comprehension

Difficulty: Intermediate

Learning Objective: 2-2 and 2-4

Section: 2.2 and 2.4

Topic: Income statement

37. Which one of the following statements is correct concerning a corporation with taxable income of \$125,000?

- A. Net income minus dividends paid will equal the ending retained earnings for the year.
- B.** An increase in depreciation will increase the operating cash flow.
- C. Net income divided by the number of shares outstanding will equal the dividends per share.
- D. Interest paid will be included in both net income and operating cash flow.
- E. An increase in the tax rate will increase both net income and operating cash flow.

Refer to sections 2.2 and 2.4

AACSB: N/A

Bloom's: Comprehension

Difficulty: Intermediate

Learning Objective: 2-2 and 2-4

Section: 2.2 and 2.4

Topic: Income statement

38. Which one of the following will increase the cash flow from assets, all else equal?

- A. decrease in cash flow to stockholders
- B. decrease in operating cash flow
- C. increase in the change in net working capital
- D. decrease in cash flow to creditors
- E.** decrease in net capital spending

Refer to section 2.4

AACSB: N/A

Bloom's: Comprehension

Difficulty: Basic

Learning Objective: 2-4

Section: 2.4

Topic: Cash flow from assets

39. For a tax-paying firm, an increase in \_\_\_\_\_ will cause the cash flow from assets to increase.

- A. depreciation
- B. net capital spending
- C. change in net working capital
- D. taxes
- E. production costs

Refer to section 2.4

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Intermediate  
Learning Objective: 2-4  
Section: 2.4  
Topic: Cash flow from assets

40. Which one of the following must be true if a firm had a negative cash flow from assets?

- A. The firm borrowed money.
- B. The firm acquired new fixed assets.
- C. The firm had a net loss for the period.
- D. The firm utilized outside funding.
- E. Newly issued shares of stock were sold.

Refer to section 2.4

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Intermediate  
Learning Objective: 2-4  
Section: 2.4  
Topic: Cash flow from assets

41. An increase in the depreciation expense will do which of the following?

- I. increase net income
  - II. decrease net income
  - III. increase the cash flow from assets
  - IV. decrease the cash flow from assets
- A. I only
  - B. II only
  - C. I and III only
  - D.** II and III only
  - E. II and IV only

Refer to sections 2.2 and 2.4

*AACSB: N/A*

*Bloom's: Comprehension*

*Difficulty: Intermediate*

*Learning Objective: 2-2 and 2-4*

*Section: 2.2 and 2.4*

*Topic: Depreciation*

42. Which one of the following is NOT included in cash flow from assets?

- A. accounts payable
- B. inventory
- C. sales
- D.** interest expense
- E. cash account

Refer to section 2.4

*AACSB: N/A*

*Bloom's: Knowledge*

*Difficulty: Basic*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Cash flow from assets*



43. Net capital spending:

- A. is equal to ending net fixed assets minus beginning net fixed assets.
- B.** is equal to zero if the decrease in the net fixed assets is equal to the depreciation expense.
- C. reflects the net changes in total assets over a stated period of time.
- D. is equivalent to the cash flow from assets minus the operating cash flow minus the change in net working capital.
- E. is equal to the net change in the current accounts.

Refer to section 2.4

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Basic  
Learning Objective: 2-4  
Section: 2.4  
Topic: Net capital spending

44. Which one of the following statements related to the cash flow to creditors is correct?

- A. If the cash flow to creditors is positive then the firm must have borrowed more money than it repaid.
- B. If the cash flow to creditors is negative then the firm must have a negative cash flow from assets.
- C.** A positive cash flow to creditors represents a net cash outflow from the firm.
- D. A positive cash flow to creditors means that a firm has increased its long-term debt.
- E. If the cash flow to creditors is zero, then a firm has no long-term debt.

Refer to section 2.4

AACSB: N/A  
Bloom's: Comprehension  
Difficulty: Intermediate  
Learning Objective: 2-4  
Section: 2.4  
Topic: Cash flow to creditors

45. A positive cash flow to stockholders indicates which one of the following with certainty?

- A.** The dividends paid exceeded the net new equity raised.
- B. The amount of the sale of common stock exceeded the amount of dividends paid.
- C. No dividends were distributed but new shares of stock were sold.
- D. Both the cash flow to assets and the cash flow to creditors must be negative.
- E. Both the cash flow to assets and the cash flow to creditors must be positive.

Refer to section 2.4

AACSB: N/A

Bloom's: Knowledge

Difficulty: Basic

Learning Objective: 2-4

Section: 2.4

Topic: Cash flow to stockholders

46. A firm has \$520 in inventory, \$1,860 in fixed assets, \$190 in accounts receivables, \$210 in accounts payable, and \$70 in cash. What is the amount of the current assets?

- A. \$710
- B.** \$780
- C. \$990
- D. \$2,430
- E. \$2,640

Current assets = \$520 + \$190 + \$70 = \$780

AACSB: Analytic

Bloom's: Application

Difficulty: Basic

Learning Objective: 2-1

Section: 2.1

Topic: Current assets

47. A firm has net working capital of \$640. Long-term debt is \$4,180, total assets are \$6,230, and fixed assets are \$3,910. What is the amount of the total liabilities?

- A. \$2,050
- B. \$2,690
- C. \$4,130
- D. \$5,590
- E. \$5,860**

Current assets = \$6,230 - \$3,910 = \$2,320

Current liabilities = \$2,320 - \$640 = \$1,680

Total liabilities = \$1,680 + \$4,180 = \$5,860

*AACSB: Analytic*  
*Bloom's: Synthesis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-1*  
*Section: 2.1*  
*Topic: Net working capital*

48. A firm has common stock of \$6,200, paid-in surplus of \$9,100, total liabilities of \$8,400, current assets of \$5,900, and fixed assets of \$21,200. What is the amount of the shareholders' equity?

- A. \$6,900
- B. \$15,300
- C. \$18,700**
- D. \$23,700
- E. \$35,500

Shareholders' equity = \$5,900 + \$21,200 - \$8,400 = \$18,700

(Note: The amount of retained earnings is not provided, so you must use total assets minus total liabilities to derive the correct answer.)

*AACSB: Analytic*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-1*  
*Section: 2.1*  
*Topic: Shareholders' equity*

49. Your firm has total assets of \$4,900, fixed assets of \$3,200, long-term debt of \$2,900, and short-term debt of \$1,400. What is the amount of net working capital?

A. -\$100

**B. \$300**

C. \$600

D. \$1,700

E. \$1,800

Net working capital =  $\$4,900 - \$3,200 - \$1,400 = \$300$

*AACSB: Analytic*

*Bloom's: Analysis*

*Difficulty: Basic*

*Learning Objective: 2-1*

*Section: 2.1*

*Topic: Net working capital*

50. Bonner Collision has shareholders' equity of \$141,800. The firm owes a total of \$126,000 of which 60 percent is payable within the next year. The firm net fixed assets of \$161,900.

What is the amount of the net working capital?

A. \$25,300

**B. \$30,300**

C. \$75,600

D. \$86,300

E. \$111,500

Current liabilities =  $.60 \times \$126,000 = \$75,600$

Total assets =  $\$141,800 + \$126,000 = \$267,800$

Current assets =  $\$267,800 - \$161,900 = \$105,900$

Net working capital =  $\$105,900 - \$75,600 = \$30,300$

*AACSB: Analytic*

*Bloom's: Analysis*

*Difficulty: Intermediate*

*Learning Objective: 2-1*

*Section: 2.1*

*Topic: Net working capital*

51. Four years ago, Velvet Purses purchased a mailing machine at a cost of \$176,000. This equipment is currently valued at \$64,500 on today's balance sheet but could actually be sold for \$58,900. This is the only fixed asset the firm owns. Net working capital is \$57,200 and long-term debt is \$111,300. What is the book value of shareholders' equity?

- A. \$4,800
- B. \$7,700
- C. \$10,400**
- D. \$222,600
- E. \$233,000

Book value of shareholders' equity = \$64,500 + \$57,200 - \$111,300 = \$10,400

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-1*  
*Section: 2.1*  
*Topic: Book value*

52. Jake owns The Corner Market which he is trying to sell so that he can retire and travel. The Corner Market owns the building in which it is located. This building was built at a cost of \$647,000 and is currently appraised at \$819,000. The counters and fixtures originally cost \$148,000 and are currently valued at \$65,000. The inventory is valued on the balance sheet at \$319,000 and has a retail market value equal to 1.2 times its cost. Jake expects the store to collect 98 percent of the \$21,700 in accounts receivable. The firm has \$26,800 in cash and has total debt of \$414,700. What is the market value of this firm?

- A. \$857,634
- B. \$900,166**
- C. \$919,000
- D. \$1,314,866
- E. \$1,333,700

Market value of firm = \$819,000 + \$65,000 + 1.2(\$319,000) + .98(\$21,700) + \$26,800 - \$414,700 = \$900,166

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-1*  
*Section: 2.1*  
*Topic: Market value*

53. Jensen Enterprises paid \$1,300 in dividends and \$920 in interest this past year. Common stock increased by \$1,200 and retained earnings decreased by \$310. What is the net income for the year?

A. -\$210

**B.** \$990

C. \$1,610

D. \$1,910

E. \$2,190

$$\text{Net income} = \$1,300 + (-\$310) = \$990$$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-2*  
*Section: 2.2*  
*Topic: Net income*

54. Andre's Bakery has sales of \$687,000 with costs of \$492,000. Interest expense is \$26,000 and depreciation is \$42,000. The tax rate is 35 percent. What is the net income?

A. \$42,750

B. \$44,450

**C.** \$82,550

D. \$86,450

E. \$124,550

$$\text{Net income} = (\$687,000 - \$492,000 - \$26,000 - \$42,000) (1 - .35) = \$82,550$$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-2*  
*Section: 2.2*  
*Topic: Net income*

55. Kaylor Equipment Rental paid \$75 in dividends and \$511 in interest expense. The addition to retained earnings is \$418 and net new equity is \$500. The tax rate is 35 percent. Sales are \$15,900 and depreciation is \$680. What are the earnings before interest and taxes?

- A. \$589.46
- B. \$1,269.46**
- C. \$1,331.54
- D. \$1,951.54
- E. \$1,949.46

Net income = \$75 + \$418 = \$493

Taxable income = \$493/(1 - .35) = \$758.46

Earnings before interest and taxes = \$758.46 + \$511 = \$1,269.46

AACSB: Analytic  
Bloom's: Application  
Difficulty: Intermediate  
Learning Objective: 2-2  
Section: 2.2  
Topic: EBIT

56. Given the tax rates as shown, what is the average tax rate for a firm with taxable income of \$311,360?

<u>Taxable Income</u>	<u>Tax Rate</u>
\$0 - 50,000	15%
50,001 - 75,000	25%
75,001 - 100,000	34%
100,001 - 335,000	39%

- A. 28.25 percent
- B. 31.09 percent
- C. 33.62 percent**
- D. 35.48 percent
- E. 39.00 percent

Tax = .15(\$50,000) + .25(\$25,000) + .34(\$25,000) + .39(\$211,360) = \$104,680.40

Average tax rate = \$104,680.40/\$311,360 = 33.62 percent

AACSB: Analytic  
Bloom's: Application  
Difficulty: Basic  
Learning Objective: 2-3  
Section: 2.3  
Topic: Average tax rate

57. The tax rates are as shown. Nevada Mining currently has taxable income of \$97,800. How much additional tax will the firm owe if taxable income increases by \$21,000?

<u>Taxable Income</u>	<u>Tax Rate</u>
\$0 - 50,000	15%
50,001 - 75,000	25%
75,001 - 100,000	34%
100,001 - 335,000	39%

- A. \$8,080
- B. \$8,130
- C. \$8,155
- D. \$8,170
- E. \$8,190

$$\text{Additional tax} = .34(\$100,000 - \$97,800) + .39(\$97,800 + \$21,000 - \$100,000) = \$8,080$$

AACSB: Analytic  
 Bloom's: Application  
 Difficulty: Basic  
 Learning Objective: 2-3  
 Section: 2.3  
 Topic: Marginal tax

58. Winston Industries had sales of \$843,800 and costs of \$609,900. The firm paid \$38,200 in interest and \$18,000 in dividends. It also increased retained earnings by \$62,138 for the year. The depreciation was \$76,400. What is the average tax rate?

- A. 32.83 percent
- B. 33.33 percent
- C. 38.17 percent
- D. 43.39 percent
- E. 48.87 percent

$$\text{Earnings before taxes} = \$843,800 - \$609,900 - \$76,400 - \$38,200 = \$119,300$$

$$\text{Net income} = \$18,000 + \$62,138 = \$80,138$$

$$\text{Taxes} = \$119,300 - \$80,138 = \$39,162$$

$$\text{Tax rate} = \$39,162 / \$119,300 = 32.83 \text{ percent}$$

AACSB: Analytic  
 Bloom's: Analysis  
 Difficulty: Intermediate  
 Learning Objective: 2-3  
 Section: 2.3  
 Topic: Average tax rate



59. Crandall Oil has total sales of \$1,349,800 and costs of \$903,500. Depreciation is \$42,700 and the tax rate is 34 percent. The firm does not have any interest expense. What is the operating cash flow?

- A. \$129,152
- B. \$171,852
- C. \$179,924
- D. \$281,417
- E. \$309,076**

Earnings before interest and taxes = \$1,349,800 - \$903,500 - \$42,700 = \$403,600

Tax = \$403,600 × .34 = \$137,224

Operating cash flow = \$403,600 + \$42,700 - \$137,224 = \$309,076

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: OCF*

60. Nielsen Auto Parts had beginning net fixed assets of \$218,470 and ending net fixed assets of \$209,411. During the year, assets with a combined book value of \$6,943 were sold. Depreciation for the year was \$42,822. What is the amount of net capital spending?

- A. \$33,763**
- B. \$40,706
- C. \$58,218
- D. \$65,161
- E. \$67,408

Net capital spending = \$209,411 - \$218,470 + \$42,822 = \$33,763

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Net capital spending*

61. At the beginning of the year, a firm had current assets of \$121,306 and current liabilities of \$124,509. At the end of the year, the current assets were \$122,418 and the current liabilities were \$103,718. What is the change in net working capital?

- A. -\$19,679
- B. -\$11,503
- C. -\$9,387
- D. \$1,809
- E. \$21,903**

$$\text{Change in net working capital} = (\$122,418 - \$103,718) - (\$121,306 - \$124,509) = \$21,903$$

*AACSB: Analytic*

*Bloom's: Application*

*Difficulty: Basic*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Change in net working capital*

62. At the beginning of the year, the long-term debt of a firm was \$72,918 and total debt was \$138,407. At the end of the year, long-term debt was \$68,219 and total debt was \$145,838. The interest paid was \$6,430. What is the amount of the cash flow to creditors?

- A. -\$18,348
- B. -\$1,001
- C. \$11,129**
- D. \$13,861
- E. \$19,172

$$\text{Cash flow to creditors} = \$6,430 - (\$68,219 - \$72,918) = \$11,129$$

*AACSB: Analytic*

*Bloom's: Application*

*Difficulty: Basic*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Cash flow to creditors*

63. Adelson's Electric had beginning long-term debt of \$42,511 and ending long-term debt of \$48,919. The beginning and ending total debt balances were \$84,652 and \$78,613, respectively. The interest paid was \$4,767. What is the amount of the cash flow to creditors?

- A.** -\$1,641
- B. -\$1,272
- C. \$1,272
- D. \$7,418
- E. \$11,175

$$\text{Cash flow to creditors} = \$4,767 - (\$48,919 - \$42,511) = -\$1,641$$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to creditors*

64. The Daily News had net income of \$121,600 of which 40 percent was distributed to the shareholders as dividends. During the year, the company sold \$75,000 worth of common stock. What is the cash flow to stockholders?

- A. -\$75,000
- B.** -\$26,360
- C. -\$2,040
- D. \$123,640
- E. \$147,960

$$\text{Cash flow to stockholders} = .40(\$121,600) - \$75,000 = -\$26,360$$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to stockholders*

65. The Lakeside Inn had operating cash flow of \$48,450. Depreciation was \$6,700 and interest paid was \$2,480. A net total of \$2,620 was paid on long-term debt. The firm spent \$24,000 on fixed assets and decreased net working capital by \$1,330. What is the amount of the cash flow to stockholders?

- A. \$5,100
- B. \$7,830
- C. \$18,020
- D. \$19,998
- E. \$20,680**

Cash flow from assets =  $\$48,450 - (-\$1,330) - \$24,000 = \$25,780$

Cash flow to creditors =  $\$2,480 - (-\$2,620) = \$5,100$

Cash flow to stockholders =  $\$25,780 - \$5,100 = \$20,680$

*AACSB: Analytic*

*Bloom's: Analysis*

*Difficulty: Intermediate*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Cash flow to stockholders*

Star Interiors  
2012 Income Statement  
(\$ in millions)

Net sales	\$21,415
Cost of goods sold	16,408
Depreciation	1,611
Earnings before interest and taxes	3,396
Interest paid	1,282
Taxable Income	\$2,114
Less: Taxes	740
Net income	\$1,374

Star Interiors  
2011 and 2012 Balance Sheets  
(\$ in millions)

	2011	2012		2011	2012
Cash	\$668	\$297	Accounts payable	\$1,694	\$1,532
Accounts receivable	1,611	1,527	Notes payable	2,500	0
Inventory	3,848	2,947	Total	\$4,194	\$1,532
Total	\$6,127	\$4,771	Long-term debt	9,800	10,650
Net fixed assets	17,489	17,107	Common stock	7,500	7,000
			Retained earnings	2,122	2,696
Total assets	\$23,616	\$21,878	Total liab. & equity	\$23,616	\$21,878

66. What is the change in the net working capital from 2011 to 2012?

- A. -\$1,194
- B. \$1,306**
- C. \$1,887
- D. \$4,780
- E. \$5,172

$$\text{Change in net working capital} = (\$4,771 - \$1,532) - (\$6,127 - \$4,194) = \$1,306$$

AACSB: Analytic  
Bloom's: Application  
Difficulty: Basic  
Learning Objective: 2-4  
Section: 2.4  
Topic: Net working capital

67. What is the amount of the noncash expenses for 2012?

- A. \$740
- B. \$1,282
- C. \$1,333
- D.** \$1,611
- E. \$2,351

The noncash expense is the depreciation in the amount of \$1,611.

*AACSB: Analytic*  
*Bloom's: Knowledge*  
*Difficulty: Basic*  
*Learning Objective: 2-2*  
*Section: 2.2*  
*Topic: Noncash expense*

68. What is the amount of the net capital spending for 2012?

- A. -\$382
- B.** \$1,229
- C. \$1,804
- D. \$2,375
- E. \$2,516

Net capital spending = \$17,107 - \$17,489 + \$1,611 = \$1,229

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Net capital spending*

69. What is the operating cash flow for 2012?

- A. \$2,114
- B. \$2,900
- C. \$2,985
- D. \$3,536
- E. \$4,267**

$$\text{Operating cash flow} = \$3,396 + \$1,611 - \$740 = \$4,267$$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Operating cash flow*

70. What is the cash flow from assets for 2012?

- A. \$1,732**
- B. \$2,247
- C. \$2,961
- D. \$3,915
- E. \$4,267

$$\text{Change in net working capital} = (\$4,771 - \$1,532) - (\$6,127 - \$4,194) = \$1,306$$

$$\text{Net capital spending} = \$17,107 - \$17,489 + \$1,611 = \$1,229$$

$$\text{Operating cash flow} = \$3,396 + \$1,611 - \$740 = \$4,267$$

$$\text{Cash flow from assets} = \$4,267 - \$1,229 - \$1,306 = \$1,732$$

*AACSB: Analytic*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow from assets*

71. What is the amount of net new borrowing for 2012?

- A. -\$1,812
- B. -\$1,738
- C. \$240
- D. \$662
- E. \$850**

Net new borrowing = \$10,650 - \$9,800 = \$850

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Net new borrowing*

72. What is the cash flow to creditors for 2012?

- A. -\$353
- B. -\$210
- C. \$300
- D. \$432**
- E. \$527

Cash flow to creditors = \$1,282 - (\$10,650 - \$9,800) = \$432

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to creditors*



73. What is the amount of dividends paid in 2012?

- A. \$0
- B. \$574
- C. \$800**
- D. \$2,013
- E. \$2,174

$$\text{Dividends paid} = \$1,374 - (\$2,696 - \$2,122) = \$800$$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-2*  
*Section: 2.2*  
*Topic: Dividends paid*

74. What is the cash flow to stockholders for 2012?

- A. -\$500
- B. -\$800
- C. \$500
- D. \$1,300**
- E. \$2,100

$$\text{Cash flow to stockholders} = [\$1,374 - (\$2,696 - \$2,122)] - (\$7,000 - \$7,500) = \$1,300$$

*AACSB: Analytic*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to stockholders*

M & M Foods

	2011	2012
Sales	\$5,831	\$6,423
COGS	3,670	4,109
Interest	291	280
Depreciation	125	122
Cash	250	313
Accounts receivables	1,092	1,162
Current liabilities	717	1,051
Inventory	1,495	1,521
Long-term debt	2,400	1,100
Net fixed assets	4,006	4,123
Common stock	1,900	2,100
Taxes	590	670

75. What is the net working capital for 2012?

- A. -\$175
- B. \$338
- C. \$1,262
- D. \$1,945**
- E. \$4,941

Net working capital = \$313 + \$1,162 + \$1,521 - \$1,051 = \$1,945

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-1*  
*Section: 2.1*  
*Topic: Net working capital*

76. What is the change in net working capital from 2011 to 2012?

- A.** -\$175
- B. -\$70
- C. \$125
- D. \$240
- E. \$315

Change in net working capital =  $(\$313 + \$1,162 + \$1,521 - \$1,051) - (\$250 + \$1,092 + \$1,495 - \$717) = -\$175$

*AACSB: Analytic*

*Bloom's: Analysis*

*Difficulty: Intermediate*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Change in net working capital*

77. What is the net capital spending for 2012?

- A. \$117
- B.** \$239
- C. \$257
- D. \$338
- E. \$421

Net capital spending =  $\$4,123 - \$4,006 + \$122 = \$239$

*AACSB: Analytic*

*Bloom's: Application*

*Difficulty: Basic*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Net capital spending*

78. What is the operating cash flow for 2012?

- A. \$1,226
- B. \$1,367
- C. \$1,644**
- D. \$1,766
- E. \$1,823

$$\text{Operating cash flow} = (\$6,423 - \$4,109 - \$122) + \$122 - \$670 = \$1,644$$

*AACSB: Analytic*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Operating cash flow*

79. What is the cash flow from assets for 2012?

- A. \$1,230
- B. \$1,580**
- C. \$1,770
- D. \$1,810
- E. \$1,980

$$\text{Operating cash flow} = (\$6,423 - \$4,109 - \$122) + \$122 - \$670 = \$1,644$$

$$\text{Net capital spending} = \$4,123 - \$4,006 + \$122 = \$239$$

$$\text{Change in net working capital} = (\$313 + \$1,162 + \$1,521 - \$1,051) - (\$250 + \$1,092 + \$1,495 - \$717) = -\$175$$

$$\text{Cash flow from assets} = \$1,644 - \$239 - (-\$175) = \$1,580$$

*AACSB: Analytic*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow from assets*

80. What is net new borrowing for 2012?

- A.** -\$1,300
- B. -\$1,020
- C. \$880
- D. \$1,020
- E. \$1,300

Net new borrowing = \$1,100 - \$2,400 = -\$1,300

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Net new borrowing*

81. What is the cash flow to creditors for 2012?

- A. -\$1,020
- B. -\$1,100
- C. \$280
- D.** \$1,580
- E. \$1,760

Net new borrowing = \$1,100 - \$2,400 = -\$1,300  
Cash flow to creditors = 280 - (-\$1,300) = \$1,580

*AACSB: Analytic*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to creditors*

82. What is the cash flow to stockholders for 2012?

- A. \$0
- B. \$133
- C. \$268
- D. \$1,709
- E. \$1,515

Operating cash flow =  $(\$6,423 - \$4,109 - \$122) + \$122 - \$670 = \$1,644$

Net capital spending =  $\$4,123 - \$4,006 + \$122 = \$239$

Change in net working capital =  $(\$313 + \$1,162 + \$1,521 - \$1,051) - (\$250 + \$1,092 + \$1,495 - \$717) = -\$175$

Cash flow from assets =  $\$1,644 - \$239 - (-\$175) = \$1,580$

Net new borrowing =  $\$1,100 - \$2,400 = -\$1,300$

Cash flow to creditors =  $280 - (-\$1,300) = \$1,580$

Cash flow to stockholders =  $\$1,580 - \$1,580 = \$0$

*AACSB: Analytic*

*Bloom's: Synthesis*

*Difficulty: Challenge*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Cash flow to stockholders*

	<u>2012</u>
Cost of goods sold	\$4,878
Interest	238
Dividends	420
Depreciation	789
Change in retained earnings	631
Tax rate	34%

83. What is the taxable income for 2012?

- A. \$1,051.00
- B. \$1,367.78
- C. \$1,592.42**
- D. \$2,776.41
- E. \$3,091.18

Net income = \$420 + \$631 = \$1,051

Taxable income =  $\$1,051 / (1 - .34) = \$1,592.42$

*AACSB: Analytic*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-2*  
*Section: 2.2*  
*Topic: Taxable income*

84. What is the operating cash flow for 2012?

- A. \$2,078.00**
- B. \$2,122.42
- C. \$2,462.58
- D. \$2,662.00
- E. \$2,741.42

Net income = \$420 + \$631 = \$1,051

Taxable income =  $\$1,051 / (1 - .34) = \$1,592.42$

Earnings before interest and taxes =  $\$1,592.42 + \$238 = \$1,830.42$

Operating cash flow =  $\$1,830.42 + \$789 - .34(\$1,592.42) = \$2,078.00$

*AACSB: Analytic*  
*Bloom's: Synthesis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Operating cash flow*

**Essay Questions**

85. Assume you are the financial officer of a major firm. The president of the firm has just stated that she wishes to reduce the firm's investment in current assets since those assets provide little, if any, return to the firm. How would you respond to this statement?

While it is true that current assets provide a low rate of return, those assets are essential to the firm's liquidity. Should the liquid assets be reduced too low, the firm could face a much greater problem than a low rate of return. That problem would be the inability to meet the firm's financial obligations which could even result in a bankruptcy due to a lack of cash flow.

Feedback: Refer to section 2.1

*AACSB: Reflective thinking*  
*Bloom's: Application*  
*Difficulty: Intermediate*  
*Learning Objective: 2-1*  
*Section: 2.1*  
*Topic: Liquidity*

86. As long as a firm maintains a positive cash balance, why is it essential to review the firm's cash flows?

Firms can have positive cash balances because they are using borrowed funds or equity investments. For a firm to be financially healthy over the long-term, it must be able to generate cash internally. Cash flow analysis enables you to determine the sources, and uses, of a firm's cash to evaluate the financial health of the firm and ensure that the firm is generating positive cash flows from its operations.

Feedback: Refer to section 2.4

*AACSB: Reflective thinking*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow from assets*



87. The managers of a firm wish to expand the firm's operations and are trying to determine the amount of debt financing the firm should obtain versus the amount of equity financing that should be raised. The managers have asked you to explain the effects that both of these forms of financing would have on the cash flows of the firm. Write a short response to this request.

Debt financing will require cash outflows for both interest and principal payments. The interest outflow will be partially offset by a decrease in the cash outflow for taxes. Should the firm accept additional debt, the liquidity of the firm might have to be increased to ensure the debt obligations can be met in a timely manner. On the other hand, equity financing does not create any requirement for future cash outflows as equity does not need to be repaid nor are dividends required. However, if dividends are paid, they would not lower the firm's cash outflow for taxes.

Feedback: Refer to section 2.4

*AACSB: Reflective thinking*  
*Bloom's: Evaluation*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow from assets*

88. Discuss the difference between book values and market values and explain which one is more important to the financial manager and why.

The accounts on the balance sheet are generally carried at historical cost, not market values. Although the book value of the current assets and the liabilities may closely approximate market values, the same cannot be said for the rest of the balance sheet accounts. Market values are more relevant as they reflect today's values whereas the balance sheet reflects historical costs as adjusted by various accounting methods. To determine the current value of a firm, and its worth to the shareholders, financial managers must monitor market values.

Feedback: Refer to section 2.1

*AACSB: Reflective thinking*  
*Bloom's: Analysis*  
*Difficulty: Intermediate*  
*Learning Objective: 2-1*  
*Section: 2.1*  
*Topic: Book versus market value*

89. Assume you are a credit manager in charge of approving commercial loans to business firms. Identify three aspects of a firm's cash flows you would review and explain the type of information you hope to gain from reviewing each of those five aspects.

Student answers will vary but here are some examples:

- 1) operating cash flow - Is the firm generating positive cash flow from its current operations?
- 2) cash flow to creditors - Is the firm currently repaying debt or is it assuming additional debt?
- 3) net working capital - Is the firm increasing or decreasing its net working capital and what effect, if any, is this having on the firm's liquidity?
- 4) cash flow to stockholders - Is the firm currently paying any dividends to its shareholders and are those shareholders investing additional capital into the firm?
- 5) net capital spending - Is the firm currently investing in additional fixed assets?

Feedback: Refer to section 2.4

*AACSB: Reflective thinking*  
*Bloom's: Evaluation*  
*Difficulty: Intermediate*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow from assets*

#### Multiple Choice Questions

90. Beach Front Industries has sales of \$546,000, costs of \$295,000, depreciation expense of \$37,000, interest expense of \$15,000, and a tax rate of 32 percent. The firm paid \$59,000 in cash dividends. What is the addition to retained earnings?

- A. \$76,320  
B. \$81,700  
C. \$95,200  
D. \$103,460  
E. \$121,680

Net income =  $(\$546,000 - \$295,000 - \$37,000 - \$15,000) (1 - .32) = \$135,320$   
Addition to retained earnings =  $\$135,320 - \$59,000 = \$76,320$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*EOC #: 2-3*  
*Learning Objective: 2-2*  
*Section: 2.2*  
*Topic: Addition to retained earnings*

91. The Widget Co. purchased new machinery three years ago for \$4 million. The machinery can be sold to the Roman Co. today for \$2 million. The Widget Co.'s current balance sheet shows net fixed assets of \$2,500,000, current liabilities of \$1,375,000, and net working capital of \$725,000. If all the current assets were liquidated today, the company would receive \$1.9 million in cash. The book value of the Widget Co.'s assets today is \_\_\_\_\_ and the market value of those assets is \_\_\_\_\_.

- A.** \$4,600,000; \$3,900,000
- B. \$4,600,000; \$3,125,000
- C. \$5,000,000; \$3,125,000
- D. \$5,000,000; \$3,900,000
- E. \$6,500,000; \$3,900,000

Book value =  $(\$725,000 + \$1,375,000) + \$2,500,000 = \$4,600,000$

Market value =  $\$1,900,000 + \$2,000,000 = \$3,900,000$

AACSB: Analytic

Bloom's: Application

Difficulty: Basic

EOC #: 2-5

Learning Objective: 2-1

Section: 2.1

Topic: Market and book value

92. Boyer Enterprises had \$200,000 in 2011 taxable income. What is the firm's average tax rate based on the rates shown in the following table?

Taxable income	Tax rate
\$0 – 50,000	15%
50,001 – 75,000	25%
75,001 – 100,000	34%
101,000 – 335,000	39%

- A. 28.25 percent
- B. 30.63 percent**
- C. 32.48 percent
- D. 36.50 percent
- E. 39.00 percent

Tax =  $.15(\$50,000) + .25(\$25,000) + .34(\$25,000) + .39(\$200,000 - \$100,000) = \$61,250$   
 Average tax rate =  $\$61,250 / \$200,000 = 30.63$  percent

AACSB: Analytic  
 Bloom's: Application  
 Difficulty: Basic  
 EOC #: 2-7  
 Learning Objective: 2-3  
 Section: 2.3  
 Topic: Average tax rate

93. Webster World has sales of \$12,900, costs of \$5,800, depreciation expense of \$1,100, and interest expense of \$700. What is the operating cash flow if the tax rate is 32 percent?

- A. \$4,704
- B. \$5,749
- C. \$5,404**
- D. \$7,036
- E. \$7,100

Earnings before interest and taxes =  $\$12,900 - \$5,800 - \$1,100 = \$6,000$   
 Taxable income =  $\$6,000 - \$700 = \$5,300$   
 Tax =  $.32(\$5,300) = \$1,696$   
 Operating cash flow =  $\$6,000 + \$1,100 - \$1,696 = \$5,404$

AACSB: Analytic  
 Bloom's: Application  
 Difficulty: Basic  
 EOC #: 2-8  
 Learning Objective: 2-4  
 Section: 2.4  
 Topic: Operating cash flow

94. The Blue Bonnet's 2011 balance sheet showed net fixed assets of \$2.2 million, and the 2012 balance sheet showed net fixed assets of \$2.6 million. The company's income statement showed a depreciation expense of \$900,000. What was the amount of the net capital spending for 2012?

- A. -\$500,000
- B. \$400,000
- C. \$1,300,000**
- D. \$1,700,000
- E. \$1,800,000

Net capital spending = \$2,600,000 - \$2,200,000 + \$900,000 = \$1,300,000

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*EOC #: 2-9*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Net capital spending*

95. The 2011 balance sheet of Global Tours showed current assets of \$1,360 and current liabilities of \$940. The 2012 balance sheet showed current assets of \$1,640 and current liabilities of \$1,140. What was the change in net working capital for 2012?

- A. \$80**
- B. \$170
- C. \$190
- D. \$880
- E. \$920

Change in net working capital = (\$1,640 - \$1,140) - (\$1,360 - \$940) = \$80

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*EOC #: 2-10*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Net working capital*

96. The 2011 balance sheet of The Beach Shoppe showed long-term debt of \$2.1 million, and the 2012 balance sheet showed long-term debt of \$2.3 million. The 2012 income statement showed an interest expense of \$250,000. What was the cash flow to creditors for 2012?

- A. -\$200,000
- B. -\$150,000
- C. \$50,000**
- D. \$200,000
- E. \$450,000

$$\text{Cash flow to creditors} = \$250,000 - (\$2,300,000 - \$2,100,000) = \$50,000$$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*EOC #: 2-11*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to creditors*

97. The 2011 balance sheet of The Sports Store showed \$800,000 in the common stock account and \$6.7 million in the additional paid-in surplus account. The 2012 balance sheet showed \$872,000 and \$8 million in the same two accounts, respectively. The company paid out \$600,000 in cash dividends during 2012. What is the cash flow to stockholders for 2012?

- A. -\$1,372,000
- B. -\$772,000**
- C. -\$628,000
- D. \$372,000
- E. \$1,972,000

$$\begin{aligned}\text{Cash flow to stockholders} &= \$600,000 - [(\$872,000 + \$8,000,000) - (\$800,000 + \$6,700,000)] \\ &= -\$772,000\end{aligned}$$

*AACSB: Analytic*  
*Bloom's: Application*  
*Difficulty: Basic*  
*EOC #: 2-12*  
*Learning Objective: 2-4*  
*Section: 2.4*  
*Topic: Cash flow to stockholders*

98. Suppose you are given the following information for Bayside Bakery: sales = \$30,000; costs = \$15,000; addition to retained earnings = \$4,221; dividends paid = \$469; interest expense = \$1,300; tax rate = 30 percent. What is the amount of the depreciation expense?

- A. \$4,820
- B. \$5,500
- C. \$7,000**
- D. \$8,180
- E. \$9,500

$$\text{Net income} = \$469 + \$4,221 = \$4,690$$

$$\text{Earnings before taxes} = \$4,690 / (1 - .30) = \$6,700$$

$$\text{Earnings before interest and taxes} = \$6,700 + \$1,300 = \$8,000$$

$$\text{Depreciation} = \$30,000 - \$15,000 - \$8,000 = \$7,000$$

AACSB: Analytic  
Bloom's: Analysis  
Difficulty: Intermediate  
EOC #: 2-15  
Learning Objective: 2-2  
Section: 2.2  
Topic: Income statement

99. Dee Dee's Marina is obligated to pay its creditors \$6,400 today. The firm's assets have a current market value of \$5,900. What is the current market value of the shareholders' equity?

- A. -\$600
- B. -\$500
- C. \$0**
- D. \$500
- E. \$600

Shareholders' equity =  $\text{Max} [(\$5,900 - \$6,400), 0]$ . Since the market value of equity cannot be negative, the answer is zero.

AACSB: Analytic  
Bloom's: Analysis  
Difficulty: Intermediate  
EOC #: 2-17  
Learning Objective: 2-1  
Section: 2.1  
Topic: Shareholders' equity

100. During 2012, RIT Corp. had sales of \$565,600. Costs of goods sold, administrative and selling expenses, and depreciation expenses were \$476,000, \$58,800, and \$58,800, respectively. In addition, the company had an interest expense of \$112,000 and a tax rate of 32 percent. What is the operating cash flow for 2012? Ignore any tax loss carry-back or carry-forward provisions.

- A. \$17,920
- B. \$21,840
- C. \$30,800**
- D. \$52,600
- E. \$77,840

Earnings before interest and taxes = Net income =  $\$565,600 - \$476,000 - \$58,800 - \$58,800 = -\$28,000$

Operating cash flow =  $-\$28,000 + \$58,800 - \$0 = \$30,800$

*AACSB: Analytic*

*Bloom's: Analysis*

*Difficulty: Intermediate*

*EOC #: 2-19*

*Learning Objective: 2-4*

*Section: 2.4*

*Topic: Operating cash flow*