***CHAPTER 2***

**ACCOUNTING STATEMENTS, TAXES, AND CASH FLOW**

**Answers to Concepts Review and Critical Thinking Questions**

**1.** True. Every asset can be converted to cash at some price. However, when we are referring to a liquid asset, the added assumption that the asset can be quickly converted to cash at or near market value is important.

**2.** The recognition and matching principles in financial accounting call for revenues, and the costs associated with producing those revenues, to be “booked” when the revenue process is essentially complete, not necessarily when the cash is collected or bills are paid. Note that this way is not necessarily correct; it’s the way accountants have chosen to do it.

**3.** The bottom line number shows the change in the cash balance on the balance sheet. As such, it is not a useful number for analyzing a company.

**4.** The major difference is the treatment of interest expense. The accounting statement of cash flows treats interest as an operating cash flow, while the financial cash flows treat interest as a financing cash flow. The logic of the accounting statement of cash flows is that since interest appears on the income statement, which shows the operations for the period, it is an operating cash flow. In reality, interest is a financing expense, which results from the company’s choice of debt and equity. We will have more to say about this in a later chapter. When comparing the two cash flow statements, the financial statement of cash flows is a more appropriate measure of the company’s performance because of its treatment of interest.

**5.** Market values can never be negative. Imagine a share of stock selling for –$20. This would mean that if you placed an order for 100 shares, you would get the stock along with a check for $2,000. How many shares do you want to buy? More generally, because of corporate and individual bankruptcy laws, net worth for a person or a corporation cannot be negative, implying that liabilities cannot exceed assets in market value.

**6.** For a successful company that is rapidly expanding, for example, capital outlays will be large, possibly leading to negative cash flow from assets. In general, what matters is whether the money is spent wisely, not whether cash flow from assets is positive or negative.

**7.** It’s probably not a good sign for an established company to have negative cash flow from operations, but it would be fairly ordinary for a start-up, so it depends.

**8.** For example, if a company were to become more efficient in inventory management, the amount of inventory needed would decline. The same might be true if the company becomes better at collecting its receivables. In general, anything that leads to a decline in ending NWC relative to beginning would have this effect. Negative net capital spending would mean more long-lived assets were liquidated than purchased.

**9.** If a company raises more money from selling stock than it pays in dividends in a particular period, its cash flow to stockholders will be negative. If a company borrows more than it pays in interest and principal, its cash flow to creditors will be negative.

**10.** The adjustments discussed were purely accounting changes; they had no cash flow or market value consequences unless the new accounting information caused stockholders to revalue the assets.

**Solutions to Questions and Problems**

*NOTE: All end-of-chapter problems were solved using a spreadsheet. Many problems require multiple steps. Due to space and readability constraints, when these intermediate steps are included in this solutions manual, rounding may appear to have occurred. However, the final answer for each problem is found without rounding during any step in the problem.*

 *Basic*

**1.** To find owners’ equity, we must construct a balance sheet as follows:

 Balance Sheet

 CA $ 4,300 CL $ 2,900

 NFA 24,000 LTD 10,700

 OE ??

 TA $28,300 TL & OE $28,300

 We know that total liabilities and owners’ equity (TL & OE) must equal total assets of $28,300. We also know that TL & OE is equal to current liabilities plus long-term debt plus owners’ equity, so owners’ equity is:

 Owners’ equity = $28,300 – 10,700 – 2,900

 Owners’ equity = $14,700

 And net working capital is current assets minus current liabilities, so:

 NWC = Current assets – Current liabilities

 NWC = $4,300 – 2,900

 NWC = $1,400

**2.** The income statement for the company is:

 Income Statement

 Sales $473,000

 Costs 275,000

 Depreciation 42,000

 EBIT $156,000

 Interest 23,000

 EBT $133,000

 Taxes 27,930

 Net income $105,070

 One equation for net income is:

 Net income = Dividends + Addition to retained earnings

 Rearranging, we get:

 Addition to retained earnings = Net income – Dividends

 Addition to retained earnings = $105,070 – 25,000

 Addition to retained earnings = $80,070

**3.** To find the book value of current assets, we use: NWC = CA – CL. Rearranging to solve for current assets, we get:

 Current assets = Net working capital + Current liabilities

 Current assets = $850,000 + 2,200,000

 Current assets = $3,050,000

 The market value of current assets and net fixed assets is given, so:

 Book value CA = $3,050,000 Market value CA = $2,700,000

 Book value NFA = $4,900,000 Market value NFA = $6,400,000

 Book value assets = $7,950,000 Market value assets = $9,100,000

**4.** Taxes = .10($9,525) + .12($38,700 – 9,525) + .22($82,500 – 38,700) + .24($157,500 – 82,500)

 + .32($189,000 – 157,500)

 Taxes = $42,169.50

 The average tax rate is the total tax paid divided by taxable income, so:

 Average tax rate = $42,169.50/$189,000

 Average tax rate = .2231, or 22.31%

 The marginal tax rate is the tax rate on the next $1 of earnings, so the marginal tax rate is 32 percent.

**5.** To calculate OCF, we first need the income statement:

Income Statement

 Sales $22,400

 Costs 11,600

 Depreciation 2,200

 EBIT $8,600

 Interest 1,370

 Taxable income $7,230

 Taxes 1,591

 Net income $5,639

 OCF = EBIT + Depreciation – Taxes

 OCF = $8,600 + 2,200 – 1,591

 OCF = $9,209

**6.** Net capital spending = NFAend – NFAbeg + Depreciation

 Net capital spending = $1,430,000 – 1,280,000 + 146,000

 Net capital spending = $296,000

**7.** The long-term debt account will increase by $30 million, the amount of the new long-term debt issue. Since the company sold 4.5 million new shares of stock with a $1 par value, the common stock account will increase by $4.5 million. The capital surplus account will increase by $53.5 million, the value of the new stock sold above its par value. Since the company had a net income of $7.5 million, and paid $1.7 million in dividends, the addition to retained earnings was $5.8 million, which will increase the accumulated retained earnings account. So, the new long-term debt and stockholders’ equity portion of the balance sheet will be:

|  |  |  |
| --- | --- | --- |
|   | Long-term debt |  $ 75,000,000  |
|   |  Total long-term debt |  $ 75,000,000  |
|   |   |   |
|   | Shareholders’ equity |   |
|   | Preferred stock |  $ 2,900,000  |
|   | Common stock ($1 par value) |  15,500,000  |
|   | Accumulated retained earnings |  112,800,000  |
|   | Capital surplus |  102,500,000  |
|   |  Total equity |  $ 233,700,000  |
|   |  |  |
|   | Total liabilities & equity |  $ 308,700,000  |

**8.** Cash flow to creditors = Interest paid – Net new borrowing

 Cash flow to creditors = $170,000 – (LTDend – LTDbeg)

 Cash flow to creditors = $170,000 – ($1,645,000 – 1,565,000)

 Cash flow to creditors = $170,000 – 80,000

 Cash flow to creditors = $90,000

**9.** Cash flow to stockholders = Dividends paid – Net new equity

 Cash flow to stockholders = $335,000 – [(Commonend + APISend) – (Commonbeg + APISbeg)]

 Cash flow to stockholders = $335,000 – [($525,000 + 3,750,000) – ($490,000 + 3,400,000)]

 Cash flow to stockholders = $335,000 – ($4,275,000 – 3,890,000)

 Cash flow to stockholders = –$50,000

 Note, APIS is the additional paid-in surplus.

**10.** Cash flow from assets = Cash flow to creditors + Cash flow to stockholders = $90,000 – 50,000

 = $40,000

 Cash flow from assets = OCF – Change in NWC – Net capital spending

 $40,000 = OCF – (–$96,000) – 735,000

 Operating cash flow = $40,000 – 96,000 + 735,000

 Operating cash flow = $679,000

 *Intermediate*

**11.** *a.* The accounting statement of cash flows explains the change in cash during the year. The accounting statement of cash flows will be:

|  |  |
| --- | --- |
|   | Statement of cash flows |
|   | *Operations* |   |
|   |  Net income | $129 |
|   |  Depreciation | 92 |
|   |  Changes in other current assets |  (17) |
|  |  Change in accounts payable |  17 |
|   | Total cash flow from operations | $221 |
|   |   |  |
|   | *Investing activities* |  |
|   |  Acquisition of fixed assets | $(111) |
|   | Total cash flow from investing activities | $(111) |
|   |   |  |
|   | *Financing activities* |  |
|   |  Proceeds of long-term debt | $8 |
|   |  Dividends | (97) |
|   | Total cash flow from financing activities | ($89) |
|   |   |  |
|   | Change in cash (on balance sheet) |  $21 |

 *b.* Change in NWC = NWCend – NWCbeg

 = (CAend – CLend) – (CAbeg – CLbeg)

 = [($84 + 192) – 146] – [($63 + 175) – 129)

 = $130 – 109

 = $21

 *c.* To find the cash flow generated by the firm’s assets, we need the operating cash flow and the capital spending. So, calculating each of these, we find:

|  |  |  |
| --- | --- | --- |
|   | *Operating cash flow* |  |
|   | Net income | $129 |
|   | Depreciation |  92 |
|   |  Operating cash flow | $221 |

 Note that we can calculate OCF in this manner since there are no taxes.

|  |  |  |
| --- | --- | --- |
|   | *Capital spending* |  |
|   | Ending fixed assets | $417 |
|   | Beginning fixed assets | –398 |
|   | Depreciation |  92 |
|   |  Capital spending | $111 |

 Now we can calculate the cash flow generated by the firm’s assets, which is:

|  |  |  |
| --- | --- | --- |
|   |   |  |
|   | *Cash flow from assets* |  |
|   | Operating cash flow | $221 |
|   | Capital spending | –111 |
|   | Change in NWC |  –21 |
|   |  Cash flow from assets | $ 89 |

**12.** With the information provided, the cash flows from the firm are the capital spending and the change in net working capital, so:

|  |  |  |
| --- | --- | --- |
|   | *Cash flows from the firm* |   |
|   | Capital spending | –$29,000 |
|   | Additions to NWC |  –2,400 |
|   |  Capital spending and NWC cash flow | –$31,400 |

 And the cash flows to the investors of the firm are:

|  |  |  |
| --- | --- | --- |
|   | *Cash flows to investors of the firm* |  |
|   | Sale of long-term debt | –$16,400 |
|   | Sale of common stock | –4,000 |
|   | Dividends paid |  13,100 |
|   |  Cash flows to investors of the firm | –$7,300 |

**13.** *a.* The interest expense for the company is the amount of debt times the interest rate on the debt. So, the income statement for the company is:

Income Statement

 Sales $865,000

 Cost of goods sold 455,000

 Selling costs 210,000

 Depreciation 105,000

 EBIT $ 95,000

 Interest 27,200

 Taxable income $ 67,800

 Taxes 14,238

 Net income $ 53,562

 *b.* And the operating cash flow is:

OCF = EBIT + Depreciation – Taxes

 OCF = $95,000 + 105,000 – 14,238

 OCF = $185,762

**14.** To find the OCF, we first calculate net income.

 Income Statement

 Sales $246,000

 Costs 135,000

 Other expenses 7,100

 Depreciation 19,100

 EBIT $84,800

 Interest 10,000

 Taxable income $74,800

 Taxes 18,876

 Net income $55,924

 Dividends $9,800

 Additions to RE $46,124

*a.* OCF = EBIT + Depreciation – Taxes

 OCF = $84,800 + 19,100 – 18,876

 OCF = $85,024

 *b.* CFC = Interest – Net new LTD

 CFC = $10,000 – (–$6,800)

 CFC = $16,800

 Note that the net new long-term debt is negative because the company repaid part of its long-

 term debt.

*c.* CFS = Dividends – Net new equity

 CFS = $9,800 – 7,900

 CFS = $1,900

 *d.* We know that CFA = CFC + CFS, so:

 CFA = $16,800 + 1,900

 CFA = $18,700

 CFA is also equal to OCF – Net capital spending – Change in NWC. We already know OCF. Net capital spending is equal to:

 Net capital spending = Increase in NFA + Depreciation

 Net capital spending = $41,900 + 19,100

 Net capital spending = $61,000

 Now we can use:

 CFA = OCF – Net capital spending – Change in NWC

 $18,700 = $85,024 – 61,000 – Change in NWC

 Change in NWC = $5,324

 This means the company increased its NWC by $5,324.

**15.** The solution to this question works the income statement backwards. Starting at the bottom:

 Net income = Dividends + Addition to retained earnings

 Net income = $1,720 + 5,300

 Net income = $7,020

 Now, looking at the income statement:

 EBT – (EBT × Tax rate) = Net income

 Recognize that EBT × Tax rate is the calculation for taxes. Solving this for EBT yields:

 EBT = Net income/(1 – Tax rate)

 EBT = $7,020/(1 – .21)

 EBT = $8,886.08

 Now we can calculate:

 EBIT = EBT + Interest

 EBIT = $8,886.08 + 2,050

 EBIT = $10,936.08

 The last step is to use:

 EBIT = Sales – Costs – Depreciation

 $10,936.08 = $54,000 – 29,500 – Depreciation

 Depreciation = $13,563.92

**16.** The market value of shareholders’ equity cannot be negative. A negative market value in this case would imply that the company would pay you to own the stock. The market value of shareholders’ equity can be stated as: Shareholders’ equity = Max [(TA – TL), 0]. So, if TA is $11,900, equity is equal to $1,200, and if TA is $9,400, equity is equal to $0. We should note here that while the market value of equity cannot be negative, the book value of shareholders’ equity can be negative.

**17.** Income Statement

 Sales $630,000

 COGS 465,000

 A&S expenses 85,000

 Depreciation 135,000

 EBIT –$55,000

 Interest 70,000

 Taxable income –$125,000

 Taxes (21%) 0

 *a.* Net income –$125,000

 *b.* OCF = EBIT + Depreciation – Taxes

 OCF = –$55,000 + 135,000 – 0

 OCF = $80,000

 *c.* Net income was negative because of the tax deductibility of depreciation and interest expense. However, the actual cash flow from operations was positive because depreciation is a non-cash expense and interest is a financing expense, not an operating expense.

**18.** A firm can still pay out dividends if net income is negative; it just has to be sure there is sufficient cash flow to make the dividend payments.

 Change in NWC = Net capital spending = Net new equity = 0. (Given)

 Cash flow from assets = OCF – Change in NWC – Net capital spending

 Cash flow from assets = $80,000 – 0 – 0 = $80,000

 Cash flow to stockholders = Dividends – Net new equity

 Cash flow to stockholders = $34,000 – 0 = $34,000

 Cash flow to creditors = Cash flow from assets – Cash flow to stockholders

 Cash flow to creditors = $80,000 – 34,000

 Cash flow to creditors = $46,000

 Cash flow to creditors is also:

 Cash flow to creditors = Interest – Net new LTD

 So:

 Net new LTD = Interest – Cash flow to creditors

 Net new LTD = $70,000 – 46,000

 Net new LTD = $24,000

**19.** *a.* The income statement is:

|  |  |  |
| --- | --- | --- |
|   |  | Income Statement |
|  |  | Sales  | $24,360 |
|  |  | Cost of goods sold | 17,600 |
|  |  | Depreciation |  3,400 |
|  |  | EBIT | $ 3,360 |
|  |  | Interest |  860 |
|  |  | Taxable income | $ 2,500 |
|  |  | Taxes  |  525 |
|  |  | Net income |  $1,975 |

 *b.* OCF = EBIT + Depreciation – Taxes

 OCF = $3,360 + 3,400 – 525

 OCF = $6,235

 *c.* Change in NWC = NWCend – NWCbeg

 = (CAend – CLend) – (CAbeg – CLbeg)

 = ($6,410 – 3,445) – ($5,560 – 3,040)

 = $2,965 – 2,520

 = $445

 Net capital spending = NFAend – NFAbeg + Depreciation

 = $21,180 – 18,650 + 3,400

 = $5,930

 CFA = OCF – Change in NWC – Net capital spending

 = $6,235 – 445 – 5,930

 = –$140

 The cash flow from assets can be positive or negative, since it represents whether the firm raised funds or distributed funds on a net basis. In this problem, even though net income and OCF are positive, the firm invested heavily in both fixed assets and net working capital; it had to raise a net $140 in funds from its stockholders and creditors to make these investments.

 *d.* Cash flow to creditors = Interest – Net new LTD

 = $860 – 0

 = $860

 Cash flow to stockholders = Cash flow from assets – Cash flow to creditors

 = –$140 – 860

 = –$1,000

 We can also calculate the cash flow to stockholders as:

 Cash flow to stockholders = Dividends – Net new equity

 Solving for net new equity, we get:

 Net new equity = $1,000 – (–790)

 = $1,790

 The firm had positive earnings in an accounting sense (NI > 0) and had positive cash flow from operations. The firm invested $445 in new net working capital and $5,930 in new fixed assets. The firm had to raise $140 from its stakeholders to support this new investment. It accomplished this by raising $1,790 in the form of new equity. After paying out $790 of this in the form of dividends to shareholders and $860 in the form of interest to creditors, $140 was left to meet the firm’s cash flow needs for investment.

**20.** *a.* Total assets 2018 = $1,157 + 5,261 = $6,418

 Total liabilities 2018 = $481 + 2,856 = $3,337

 Owners’ equity 2018 = $6,418 – 3,337 = $3,081

 Total assets 2019 = $1,411 + 6,125 = $7,536

 Total liabilities 2019 = $534 + 3,256 = $3,790

 Owners’ equity 2019 = $7,536 – 3,790 = $3,746

 *b.* NWC 2018 = CA – CL = $1,157 – 481 = $676

 NWC 2019 = CA – CL = $1,411 – 534 = $877

 Change in NWC = NWCend – NWCbeg = $877 – 676 = $201

 *c.* We can calculate net capital spending as:

 Net capital spending = Net fixed assetsend – Net fixed assetsbeg + Depreciation

 Net capital spending = $6,125 – 5,261 + 1,478

 Net capital spending = $2,342

 So, the company had a net capital spending cash flow of $2,342. We also know that net capital spending is:

 Net capital spending = Fixed assets bought – Fixed assets sold

 $2,342 = $2,820 – Fixed assets sold

 Fixed assets sold = $2,820 – 2,342

 Fixed assets sold = $478

 To calculate the cash flow from assets, we must first calculate the operating cash flow. The operating cash flow is calculated as follows (we could also prepare a traditional income statement):

 EBIT = Sales – Costs – Depreciation

 EBIT = $17,688 – 7,118 – 1,478

 EBIT = $9,092

 EBT = EBIT – Interest

 EBT = $9,092 – 392

 EBT = $8,700

 Taxes = EBT × .22

 Taxes = $8,700 × .22

 Taxes = $1,914

 OCF = EBIT + Depreciation – Taxes

 OCF = $9,092 + 1,478 – 1,914

 OCF = $8,656

 Cash flow from assets = OCF – Change in NWC – Net capital spending

 Cash flow from assets = $8,656 – 201 – 2,342

 Cash flow from assets = $6,113

 *d.* Net new borrowing = LTDend – LTDbeg

 Net new borrowing = $3,256 – 2,856

 Net new borrowing = $400

Net new borrowing = $400 = Debt issued – Debt retired

 Debt retired = $545 – 400

 Debt retired = $145

 Cash flow to creditors = Interest – Net new LTD

 Cash flow to creditors = $392 – 400

 Cash flow to creditors = –$8

**21.**

|  |  |
| --- | --- |
|   | Balance sheet as of Dec. 31, 2018 |
|   | Cash | $4,438 |   |   |   |  Accounts payable  | $4,661 |
|   | Accounts receivable | 4,874 |   |   |   |  Notes payable  | 858 |
|   | Inventory | 10,444 |   |   |   |  Current liabilities  | $5,519 |
|   | Current assets | $19,756 |   |   |   |   |  |
|   |   |  |   |   |   |  Long-term debt  | $14,537 |
|   | Net fixed assets | $37,211 |   |   |   |  Owners' equity  | 36,911 |
|   | Total assets | $56,967 |   |   |   |  Total liab. & equity  | $56,967 |

|  |  |
| --- | --- |
|   | Balance sheet as of Dec. 31, 2019 |
|   | Cash | $5,620 |   |   |   |  Accounts payable  | $4,520 |
|   | Accounts receivable | 6,617 |   |   |   |  Notes payable  | 806 |
|   | Inventory | 10,733 |   |   |   |  Current liabilities  | $5,326 |
|   | Current assets | $22,970 |   |   |   |   |  |
|   |   |  |   |   |   |  Long-term debt  | $17,334 |
|   | Net fixed assets | $39,049 |   |   |   |  Owners' equity  | 39,359 |
|   | Total assets | $62,019 |   |   |   |  Total liab. & equity  | $62,019 |

 2018 Income Statement 2019 Income Statement

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Sales | $8,462.00 |  | Sales | $9,082.00 |
|  | COGS | 2,912.00 |  | COGS | 3,305.00 |
|  | Other expenses | 690.00 |  | Other expenses | 577.00 |
|  | Depreciation | 1,215.00 |  | Depreciation | 1,216.00 |
|  | EBIT | $3,645.00 |  | EBIT | $3,984.00 |
|  | Interest | 567.00 |  | Interest | 652.00 |
|  | EBT | $3,078.00 |  | EBT | $3,332.00 |
|  | Taxes  | 646.38 |  | Taxes  | 699.72 |
|  | Net income | $2,431.62 |  | Net income | $2,632.28 |
|  |  |  |  |  |  |
|  | Dividends | $1,032.00 |  | Dividends | $1,135.00 |
|  | Additions to RE | 1,399.62 |  | Additions to RE | 1,497.28 |

**22.** OCF = EBIT + Depreciation – Taxes

 OCF = $3,984 + 1,216 – 699.72

 OCF = $4,500.28

 Change in NWC = NWCend – NWCbeg = (CA – CL)end – (CA – CL)beg

 Change in NWC = ($22,970 – 5,326) – ($19,756 – 5,519)

 Change in NWC = $3,407

 Net capital spending = NFAend – NFAbeg + Depreciation

 Net capital spending = $39,049 – 37,211 + 1,216

 Net capital spending = $3,054

 Cash flow from assets = OCF – Change in NWC – Net capital spending

 Cash flow from assets = $4,500.28 – 3,407 – 3,054

 Cash flow from assets = –$1,960.72

 Cash flow to creditors = Interest – Net new LTD

 Net new LTD = LTDend – LTDbeg

 Cash flow to creditors = $652 – ($17,334 – 14,537)

 Cash flow to creditors = –$2,145

 Net new equity = Common stockend – Common stockbeg

 Common stock + Retained earnings = Total owners’ equity

 Net new equity = (OE – RE)end – (OE – RE)beg

 Net new equity = OEend – OEbeg + REbeg – REend

 REend= REbeg+ Additions to RE

1. Net new equity = OEend – OEbeg+ REbeg – (REbeg + Additions to RE)

 = OEend – OEbeg – Additions to RE

Net new equity = $39,359 – 36,911 – 1,497.28 = $950.72

 Cash flow to stockholders = Dividends – Net new equity

 Cash flow to stockholders = $1,135 – 950.72

 Cash flow to stockholders = $184.28

 As a check, cash flow from assets is –$1,960.72

 Cash flow from assets = Cash flow from creditors + Cash flow to stockholders

 Cash flow from assets = –$2,145 + 184.28

 Cash flow from assets = –$1,960.72

 *Challenge*

**23.** We will begin by calculating the operating cash flow. First, we need the EBIT, which can be calculated as:

 EBIT = Net income + Current taxes + Deferred taxes + Interest

 EBIT = $187 + 81 + 11 + 38

 EBIT = $317

 Now we can calculate the operating cash flow as:

|  |  |  |
| --- | --- | --- |
|   | *Operating cash flow* |   |
|   | Earnings before interest and taxes | $317 |
|   | Depreciation | 74 |
|   | Current taxes | –81 |
|   |  Operating cash flow | $310 |

 The cash flow from assets is found in the investing activities portion of the accounting statement of cash flows, so:

|  |  |  |
| --- | --- | --- |
|   | *Cash flow from assets* |  |
|   | Acquisition of fixed assets | $194 |
|   | Sale of fixed assets |  –19 |
|   |  Capital spending | $175 |

 The net working capital cash flows are all found in the operations cash flow section of the accounting statement of cash flows. However, instead of calculating the net working capital cash flows as the change in net working capital, we must calculate each item individually. Doing so, we find:

|  |  |  |
| --- | --- | --- |
|   | *Net working capital cash flow* |  |
|   | Cash | $12 |
|   | Accounts receivable | 12 |
|   | Inventories | –15 |
|   | Accounts payable | –11 |
|   | Accrued expenses | 6 |
|   | Other |  –2 |
|   |  NWC cash flow | $2 |

 Except for the interest expense, the cash flow to creditors is found in the financing activities of the accounting statement of cash flows. The interest expense from the income statement is given, so:

|  |  |  |
| --- | --- | --- |
|   | *Cash flow to creditors* |  |
|   | Interest | $38 |
|   | Retirement of debt |  145 |
|   |  Debt service | $183 |
|   | Proceeds from sale of long-term debt |  –110 |
|   |  Total | $73 |

 And we can find the cash flow to stockholders in the financing section of the accounting statement of cash flows. The cash flow to stockholders was:

|  |  |  |
| --- | --- | --- |
|   | *Cash flow to stockholders* |  |
|   | Dividends | $67 |
|   | Repurchase of stock |  32 |
|   |  Cash to stockholders | $99 |
|   | Proceeds from new stock issue |  –39 |
|   |  Total | $60 |

**24.** Net capital spending = NFAend – NFAbeg + Depreciation

 = (NFAend – NFAbeg) + (Depreciation + ADbeg) – ADbeg

 = (NFAend – NFAbeg)+ ADend – ADbeg

 = (NFAend + ADend) – (NFAbeg + ADbeg) = FAend – FAbeg