Corporate Finance 13th edition Ross Solutions Manual

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Solutions Manual

Corporate Finance

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CHAPTER 1
INTRODUCTION TO CORPORATE FINANCE

Answers to Concept Questions

1. In the corporate form of ownership, the shareholders are the owners of the firm. The shareholders elect the directors of the corporation, who in turn appoint the firm's management. This separation of ownership from control in the corporate form of organization is what causes agency problems to exist. Management may act in its own or someone else's best interests, rather than those of the shareholders. If such events occur, they may contradict the goal of maximizing the share price of the equity of the firm.

2. Such organizations frequently pursue social or political missions, so many different goals are conceivable. One goal that is often cited is revenue minimization; i.e., provide whatever goods and services are offered at the lowest possible cost to society. A better approach might be to observe that even a not-for-profit business has equity. Thus, one answer is that the appropriate goal is to maximize the value of the equity.

3. Presumably, the current stock value reflects the risk, timing, and magnitude of all future cash flows, both short-term *and* long-term. If this is correct, then the statement is false.

4. An argument can be made either way. At the one extreme, we could argue that in a market economy, all of these things are priced. There is thus an optimal level of, for example, ethical and/or illegal behavior, and the framework of stock valuation explicitly includes these. At the other extreme, we could argue that these are non-economic phenomena and are best handled through the political process. A classic (and highly relevant) thought question that illustrates this debate goes something like this: "A firm has estimated that the cost of improving the safety of one of its products is $30 million. However, the firm believes that improving the safety of the product will only save $20 million in product liability claims. What should the firm do?"

5. The goal will be the same, but the best course of action toward that goal may be different because of differing social, political, and economic institutions.

6. The goal of management should be to maximize the share price for the current shareholders. If management believes that it can improve the profitability of the firm so that the share price will exceed $35, then they should fight the offer from the outside company. If management believes that this bidder, or other unidentified bidders, will actually pay more than $35 per share to acquire the company, then they should still fight the offer. However, if the current management cannot increase the value of the firm beyond the bid price, and no other higher bids come in, then management is not acting in the interests of the shareholders by fighting the offer. Since current managers often lose their jobs when the corporation is acquired, poorly monitored managers have an incentive to fight corporate takeovers in situations such as this.

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7. We would expect agency problems to be less severe in other countries, primarily due to the relatively small percentage of individual ownership. Fewer individual owners should reduce the number of diverse opinions concerning corporate goals. The high percentage of institutional ownership might lead to a higher degree of agreement between owners and managers on decisions concerning risky projects. In addition, institutions may be better able to implement effective monitoring mechanisms on managers than can individual owners, based on the institutions' deeper resources and experiences with their own management.

8. The increase in institutional ownership of stock in the United States and the growing activism of these large shareholder groups may lead to a reduction in agency problems for U.S. corporations and a more efficient market for corporate control. However, this may not always be the case. If the managers of the mutual fund or pension plan are not concerned with the interests of the investors, the agency problem could potentially remain the same, or even increase, since there is the possibility of agency problems between the fund and its investors.

9. How much is too much? Who is worth more, Larry Ellison or Tiger Woods? The simplest answer is that there is a market for executives just as there is for all types of labor. Executive compensation is the price that clears the market. The same is true for athletes and performers. Having said that, one aspect of executive compensation deserves comment. A primary reason executive compensation has grown so dramatically is that companies have increasingly moved to stock-based compensation. Such movement is obviously consistent with the attempt to better align stockholder and management interests. In recent years, stock prices have soared, so management has cleaned up. It is sometimes argued that much of this reward is due to rising stock prices in general, not managerial performance. Perhaps in the future, executive compensation will be designed to reward only differential performance, i.e., stock price increases in excess of general market increases.

10. Maximizing the current share price is the same as maximizing the future share price at any future period. The value of a share of stock depends on all of the future cash flows of company. Another way to look at this is that, barring large cash payments to shareholders, the expected price of the stock must be higher in the future than it is today. Who would buy a stock for $100 today when the share price in one year is expected to be $80?

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CHAPTER 2
FINANCIAL STATEMENTS 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.

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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	$ 5,400	CL	$ 4,100
NFA	28,100	LTD	10,600
		OE	??
TA	$33,500	TL & OE	$33,500

We know that total liabilities and owners' equity (TL & OE) must equal total assets of $33,500. We also know that TL & OE is equal to current liabilities plus long-term debt plus owners' equity, so owners' equity is:

Owners' equity = $33,500 – 10,600 – 4,100
Owners' equity = $18,800

And net working capital (NWC) is:

NWC = CA – CL
NWC = $5,400 – 4,100
NWC = $1,300

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2. The income statement for the company is:

Income Statement	
Sales	$497,000
Costs	276,000
Depreciation	43,000
EBIT	$178,000
Interest	24,000
EBT	$154,000
Taxes	32,340
Net income	$121,660

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 = $121,660 – 30,000
Addition to retained earnings = $91,660

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

CA = NWC + CL
CA = $275,000 + 945,000
CA = $1,220,000

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

Book value CA	$1,220,000	Market value NWC	$1,250,000
Book value NFA	3,500,000	Market value NFA	5,400,000
Book value assets	$4,720,000	Total	$6,650,000

4. Taxes = .10($9,950) + .12($40,525 – 9,950) + .22($86,375 – 40,525) + .24($164,925 – 86,375)
+ .32($189,000 – 164,925)
Taxes = $41,307

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

Average tax rate = $41,307/$189,000
Average tax rate = .2186, or 21.86%

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

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

Income Statement	
Sales	$49,800
Costs	23,700
Depreciation	2,300
EBIT	$23,800
Interest	1,800
Taxable income	$22,000
Taxes (22%)	4,840
Net income	$17,160

OCF = EBIT + Depreciation – Taxes
OCF = $23,800 + 2,300 – 4,840
OCF = $21,260

6. Net capital spending = $NFA_{end} – NFA_{beg}$ + Depreciation
Net capital spending = $3,100,000 – 2,300,000 + 327,000
Net capital spending = $1,127,000

7. The long-term debt account will increase by $34 million, the amount of the new long-term debt issue. Since the company sold 4.6 million new shares of stock with a $1 par value, the common stock account will increase by $4.6 million. The capital surplus account will increase by $56.4 million, the value of the new stock sold above its par value. Since the company had a net income of $7.9 million, and paid $1.9 million in dividends, the addition to retained earnings was $6 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	$ 82,000,000
Total long-term debt	$ 82,000,000
Shareholders' equity	
Preferred stock	$ 3,100,000
Common stock ($1 par value)	16,100,000
Accumulated retained earnings	114,000,000
Capital surplus	107,400,000
Total equity	$ 240,600,000
Total liabilities & equity	$ 322,600,000

8. Cash flow to creditors = Interest paid – Net new borrowing
Cash flow to creditors = Interest paid – ($LTD_{end} – LTD_{beg}$)
Cash flow to creditors = $305,000 – ($2,660,000 – 2,250,000)
Cash flow to creditors = –$105,000

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9. Cash flow to stockholders = Dividends paid – Net new equity
Cash flow to stockholders = Dividends paid – [($Common_{end}$ + $APIS_{end}$) – ($Common_{beg}$ + $APIS_{beg}$)]
Cash flow to stockholders = $654,000 – [($965,000 + 5,040,000) – ($780,000 + 4,780,000)]
Cash flow to stockholders = $209,000

Note, APIS is the additional paid-in surplus.

10. Cash flow from assets = Cash flow to creditors + Cash flow to stockholders
= –$105,000 + 209,000 = $104,000

Cash flow from assets = $104,000 = OCF – Change in NWC – Net capital spending
= $104,000 = OCF – (–$55,000) – 1,500,000

Operating cash flow = $104,000 – 55,000 + 1,500,000
Operating cash flow = $1,549,000

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	$148
Depreciation	94
Changes in other current assets	–18
Change in accounts payable	18
Total cash flow from operations	$242
Investing activities	
Acquisition of fixed assets	–$114
Total cash flow from investing activities	–$114
Financing activities	
Proceeds of long-term debt	$9
Dividends	–115
Total cash flow from financing activities	–$106
Change in cash (on balance sheet)	$22

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b. Change in NWC $= NWC_{end} - NWC_{beg}$
$= (CA_{end} - CL_{end}) - (CA_{beg} - CL_{beg})$
$= [(\$87 + 195) - 149] - [(\$65 + 177) - 131]$
$= \$133 - 111$
$= \$22$

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	$148
Depreciation	94
Operating cash flow	$242

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

Capital spending	
Ending fixed assets	$420
Beginning fixed assets	–400
Depreciation	94
Capital spending	$114

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

Cash flow from assets	
Operating cash flow	$242
Capital spending	–114
Change in NWC	–22
Cash flow from assets	$106

12. With the information provided, the total of capital spending and the change in net working capital are:

Cash flows from the firm	
Capital spending	–$27,500
Additions to NWC	–2,600
Capital spending and NWC cash flow	–$30,100

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

Cash flows to investors of the firm	
Sale of long-term debt	–$13,800
Sale of common stock	–5,000
Dividends paid	13,800
Cash flows to investors of the firm	–$5,000

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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	$895,000
Cost of goods sold	461,000
Selling costs	215,000
Depreciation	108,000
EBIT	$111,000
Interest	27,400
Taxable income	$ 83,600
Taxes	17,556
Net income	$ 66,044

b. And the operating cash flow is:

OCF = EBIT + Depreciation – Taxes
OCF = $111,000 + 108,000 – 17,556
OCF = $201,444

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

Income Statement	
Sales	$336,000
Costs	194,700
Other expenses	9,800
Depreciation	20,600
EBIT	$110,900
Interest	14,200
Taxable income	$96,700
Taxes	21,275
Net income	$ 75,425
Dividends	$21,450
Additions to RE	$53,975

a. OCF = EBIT + Depreciation – Taxes
OCF = $110,900 + 20,600 – 21,275
OCF = $110,225

b. CFC = Interest – Net new LTD
CFC = $14,200 – (–5,400)
CFC = $19,600

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 = $21,450 – 7,100
CFS = $14,350

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

CFA = $19,600 + 14,350
CFA = $33,950

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 = $53,200 + 20,600
Net capital spending = $73,800

Now we can use:

CFA = OCF – Net capital spending – Change in NWC
$33,950 = $110,225 – 73,800 – Change in NWC
Change in NWC = $2,475

This means that the company increased its NWC by $2,475.

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

Net income = Dividends + Addition to retained earnings = $2,370 + 6,800 = $9,170

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 = NI/(1 – Tax rate) = $9,170/(1 – .22) = $11,756

Now you can calculate:

EBIT = EBT + Interest = $11,756 + 5,300 = $17,056

The last step is to use:

EBIT = Sales – Costs – Depreciation
$17,056 = $76,800 – 36,900 – Depreciation
Depreciation = $22,844

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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 $11,600, equity is equal to $1,300, 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	$865,000
	COGS	535,000
	A&S expenses	125,000
	Depreciation	170,000
	EBIT	$35,000
	Interest	90,000
	Taxable income	–$55,000
	Taxes (25%)	0
a.	Net income	–$55,000

b. OCF = EBIT + Depreciation – Taxes
OCF = $35,000 + 170,000 – 0
OCF = $205,000

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 = $205,000 – 0 – 0 = $205,000

Cash flow to stockholders = Dividends – Net new equity
Cash flow to stockholders = $128,000 – 0 = $128,000

Cash flow to creditors = Cash flow from assets – Cash flow to stockholders
Cash flow to creditors = $205,000 – 128,000
Cash flow to creditors = $77,000

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 = $90,000 – 77,000
Net new LTD = $13,000

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19. *a.*

Income Statement	
Sales	$38,072
Cost of goods sold	27,168
Depreciation	6,759
EBIT	$ 4,145
Interest	3,050
Taxable income	$ 1,095
Taxes (22%)	241
Net income	$ 854

b. OCF = EBIT + Depreciation – Taxes
= $4,145 + 6,759 – 241 = $10,663

c. Change in NWC = $NWC_{end} - NWC_{beg}$
= $(CA_{end} - CL_{end}) - (CA_{beg} - CL_{beg})$
= ($9,904 – 5,261) – ($8,025 – 4,511)
= $1,129

Net capital spending = $NFA_{end} - NFA_{beg}$ + Depreciation
= $28,053 – 22,790 + 6,759 = $12,022

CFA = OCF – Change in NWC – Net capital spending
= $10,663 – 1,129 – 12,022 = –$2,488

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 $2,488 in funds from its stockholders and creditors to make these investments.

d. Cash flow to creditors = Interest – Net new LTD = $3,050 – 0 = $3,050

Cash flow to stockholders = Cash flow from assets – Cash flow to creditors
= –$2,488 – 3,050 = –$5,538

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 = $2,170 – (–5,538) = $7,708

The firm had positive earnings in an accounting sense (NI > 0) and had positive cash flow from operations. The firm invested $1,129 in new net working capital and $12,022 in new fixed assets. The firm had to raise $2,488 from its stakeholders to support this new investment. It accomplished this by raising $7,708 in the form of new equity. After paying out $2,170 of this in the form of dividends to shareholders and $3,050 in the form of interest to creditors, $2,488 was left to meet the firm's cash flow needs for investment.

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20. *a.* Total assets$_{2020}$ = \$1,327 + 5,470 = \$6,797
Total liabilities$_{2020}$ = \$530 + 2,891 = \$3,421
Owners' equity$_{2020}$ = \$6,797 – 3,421 = \$3,376

Total assets$_{2021}$ = \$1,438 + 6,587 = \$8,025
Total liabilities$_{2021}$ = \$595 + 3,075 = \$3,670
Owners' equity$_{2021}$ = \$8,025 – 3,670 = \$4,355

b. NWC_{2020} = $CA_{2020} - CL_{2020}$ = \$1,327 – 530 = \$797
NWC_{2021} = $CA_{2021} - CL_{2021}$ = \$1,438 – 595 = \$843
Change in NWC = $NWC_{2021} - NWC_{2020}$ = \$843 – 797 = \$46

c. We can calculate net capital spending as:

Net capital spending = Net fixed assets$_{2021}$ – Net fixed assets$_{2020}$ + Depreciation
Net capital spending = \$6,587 – 5,470 + 1,499 = \$2,616

So, the company had a net capital spending cash flow of \$2,616. We also know that net capital spending is:

Net capital spending = Fixed assets bought – Fixed assets sold
\$2,616 = \$2,740 – Fixed assets sold
Fixed assets sold = \$2,740 – 2,616 = \$124

To calculate the cash flow from assets, we must first calculate the operating cash flow. The income statement is:

Income Statement

Sales	\$16,831
Costs	7,849
Depreciation expense	1,499
EBIT	\$ 7,483
Interest expense	427
EBT	\$ 7,056
Taxes (21%)	1,482
Net income	\$ 5,574

So, the operating cash flow is:

OCF = EBIT + Depreciation – Taxes = \$7,483 + 1,499 – 1,482 = \$7,500

And the cash flow from assets is:

Cash flow from assets = OCF – Change in NWC – Net capital spending
= \$7,500 – 46 – 2,616 = \$4,838

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d. Net new borrowing = $LTD_{2021} - LTD_{2020}$ = \$3,075 – 2,891 = \$184
Cash flow to creditors = Interest – Net new LTD = \$427 – 184 = \$243

Net new borrowing = \$184 = Debt issued – Debt retired
Debt retired = \$554 – 184 = \$370

21.

Balance sheet as of Dec. 31, 2020

Cash	\$3,994	Accounts payable	\$4,195
Accounts receivable	4,387	Notes payable	772
Inventory	9,400	Current liabilities	\$4,967
Current assets	\$17,781		
		Long-term debt	\$13,083
Net fixed assets	\$33,490	Owners' equity	33,221
Total assets	\$51,271	Total liab. & equity	\$51,271

Balance sheet as of Dec. 31, 2021

Cash	\$5,058	Accounts payable	\$4,068
Accounts receivable	5,955	Notes payable	725
Inventory	9,660	Current liabilities	\$4,793
Current assets	\$20,673		
		Long-term debt	\$15,601
Net fixed assets	\$35,144	Owners' equity	35,423
Total assets	\$55,817	Total liab. & equity	\$55,817

2020 Income Statement

Sales	\$7,616.00
COGS	2,621.00
Other expenses	621.00
Depreciation	1,094.00
EBIT	\$3,280.00
Interest	510.00
EBT	\$2,770.00
Taxes	581.70
Net income	\$2,188.30
Dividends	\$929.00
Additions to RE	1,259.30

2021 Income Statement

Sales	\$8,174.00
COGS	2,975.00
Other expenses	519.00
Depreciation	1,094.00
EBIT	\$3,586.00
Interest	587.00
EBT	\$2,999.00
Taxes	629.79
Net income	\$2,369.21
Dividends	\$1,022.00
Additions to RE	1,347.21

22. OCF = EBIT + Depreciation – Taxes
OCF = \$3,586 + 1,094 – 629.79
OCF = \$4,050.21

Change in NWC = $NWC_{end} - NWC_{beg} = (CA - CL)_{end} - (CA - CL)_{beg}$
Change in NWC = (\$20,673 – 4,793) – (\$17,781 – 4,967)
Change in NWC = \$3,066

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Net capital spending = $NFA_{end} - NFA_{beg}$ + Depreciation
Net capital spending = $35,144 – 33,490 + 1,094
Net capital spending = $2,748

Cash flow from assets = OCF – Change in NWC – Net capital spending
Cash flow from assets = $4,050.21 – 3,066 – 2,748
Cash flow from assets = –$1,763.79

Cash flow to creditors = Interest – Net new LTD
Net new LTD = $LTD_{end} - LTD_{beg}$
Cash flow to creditors = $587 – ($15,601 – 13,083)
Cash flow to creditors = –$1,931

Net new equity = Common $stock_{end}$ – Common $stock_{beg}$
Common stock + Retained earnings = Total owners' equity
Net new equity = $(OE - RE)_{end} - (OE - RE)_{beg}$
Net new equity = $OE_{end} - OE_{beg} + RE_{beg} - RE_{end}$
$RE_{end} = RE_{beg}$ + Additions to RE

$$\therefore \text{ Net new equity } = OE_{end} - OE_{beg} + RE_{beg} - (RE_{beg} + \text{Additions to RE})$$
$$= OE_{end} - OE_{beg} - \text{Additions to RE}$$
$$\text{Net new equity } = \$35,423 - 33,221 - 1,347.21 = \$854.79$$

Cash flow to stockholders = Dividends – Net new equity
Cash flow to stockholders = $1,022 – 854.79
Cash flow to stockholders = $167.21

As a check, cash flow from assets is –$1,763.79

Cash flow from assets = Cash flow from creditors + Cash flow to stockholders
Cash flow from assets = –$1,931 + 167.21
Cash flow from assets = –$1,763.79

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

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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 $= NFA_{end} - NFA_{beg} + \text{Depreciation}$

$= (NFA_{end} - NFA_{beg}) + (\text{Depreciation} + AD_{beg}) - AD_{beg}$

$= (NFA_{end} - NFA_{beg}) + AD_{end} - AD_{beg}$

$= (NFA_{end} + AD_{end}) - (NFA_{beg} + AD_{beg}) = FA_{end} - FA_{beg}$

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