Foundations of Financial Management Canadian 8th Edition Block Solutions Manual

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Foundations o	f Financial M	anagement
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• •	s by Block, Hirt, and Short - Eighth 09 McGraw-Hill Ryerson and ANSF	

Foundations of Financial Management

Block, Hirt, and Short: Eighth Canadian Edition

Problem 2-6

Determine profitability.

Student Name:	
Course Name:	
Student ID:	
Course Number:	

The Censored Book Company sold 1,200 finance textbooks to Arctic College for \$60 each in 2009. These books cost \$42 to produce. In addition, Censored Books spent \$2,000 (selling expense) to persuade the college to buy its books. Censored Books borrowed \$30,000 on January 1, 2009, on which it paid 10 percent interest. Both interest and principal were paid on December 31, 2009. Censored Books' tax rate is 30 percent. Amortization expense for the year was \$4,000.

Did Censored Books make a profit in 2009? Verify your answer with an income statement presented in good form.

Foundations of Financial Management

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Problem 2-11

Prepare balance sheet

Student Name:	
Course Name:	
Student ID:	
Course Number:	

Arrange the following items in proper balance sheet presentation.

Accumulated amortization	\$300,000
Retained earnings	96,000
Cash	10,000
Bonds payable	136,000
Accounts receivable	48,000
Plant and equipment - original cost	680,000
Accounts payable	35,000
Allowance for bad debts	6,000
Common stock, 100,000 shares outstanding	188,000
Inventory	66,000
Preferred stock, 1,000 shares outstanding	50,000
Marketable securities	20,000
Investments	20,000
Notes payable	33,000

Solution

Problem 2-11 Instructions

In the solution area below, arrange the following items in proper balance sheet presentation.

I	Balance Sheet Assets	
Current Assets:		
Cash		\$10,000
Marketable securities		20,000
Accounts receivable	\$48,000	
Less: Allowance for bad debts	6,000	42,000
Inventory		66,000
Total Current Assets		138,000
Other Assets:		
Investments		20,000
Capital Assets		
Plant and equipment	680,000	
Less: Accumulated amortization	300,000	
Net plant and equipment		380,000
Total Assets		\$538,000

Liabilities and Shareholders' Equity

Current Liabilities	
Accounts payable	\$35,000
Notes payable	33,000
Total current liabilities	68,000
Long-term Liabilities	
Bonds payable	136,000
Total Liabilities	204,000
Shareholders' Equity	
Preferred stock, 1,000 shares outstanding	50,000
Common stock, 100,000 shares outstanding	188,000
Retained earnings	96,000
Total shareholders' equity	334,000
Total liabilities and shareholders' equity	\$538,000

Foundations of Financial Management

Block, Hirt, and Short: Eighth Canadian Edition

Problem 2-15

Calculate Book value and P/E Ratio

Student Name:	
Course Name:	
Student ID:	
Course Number:	

The Holtzman Corporation has assets of \$400,000, current liabilities of \$50,000, and long-term liabilities of \$100,000. There is \$40,000 in preferred stock outstanding; 20,000 shares of common stock have been issued.

a. Compute book value (net worth) per share.

b. If there is \$22,000 in earnings available to common shareholders and Holtzman's stock has a P/E ratio of 15 times earnings per share, what is the current price of the stock?

c. What is the ratio of market value per share to book value per share?

Problem 2-15 Instructions

Solution

Use the following facts to solve the problem.

Assets	\$400,000
Current liabilities	50,000
Long-term liabilities	100,000
Preferred stock	40,000
Shares of common	20,000

a. Compute book value (net worth) per share.

Total Assets	\$400,000
Current liabilities	50,000
Long-term liabilities	100,000
Shareholders' equity	250,000
Preferred stock	40,000
Net worth assigned to common	\$ <u>210,000</u>
Common shares outstanding	20,000
Book value (net worth) per share	\$10.50

b. If there is \$22,000 in earnings available to common shareholders and Holtzman's stock has a P/E ratio of 15 times earnings per share, what is the current price of the stock?

Earnings available to common Shares outstanding	\$22,000 20,000
Earnings per share	\$1.10
Current Price	
P/E Ratio	15
Earnings per share	\$1.10
Current Price	\$16.50

c. What is the ratio of market value per share to book value per share?

Market share per share	\$16.50
Book value per share	\$10.50
Ratio of market value to book value	1.57

		4.51				
Found B	ations (ock, Hirt, ar	O f Fina nd Short: Eig	ncial Man ghth Canadian E	age	ement	
Problem 2-29 Prepare income statement and bal	ance sheet.					
Student Name: Course Name: Student ID:						
Course Number: For December 31, 2008, the balan	ce sheet of the D) ominion Pines C	Corporation is as follow	s:		
Current Assets Cash	\$15,000			bilities	\$20,000	
Accounts receivable	22,500		Notes payable		30,000	
Inventory Prepaid expenses	37,500 18,000		Bonds payable		75,000	
Capital Assets Plant and equipment	375,000		Sharehol Common stock	ders' Ec	150,000	
Less: Accumulated amortization Net plant and equipment	75,000		Retained earnings Total shareholders' ea	mitv	118,000	
Total assets	\$393,000	-	Total liabilities and shareholders' equity	quity	\$393,000	
Sales for 2009 were \$330,000, with percent of plant and equipment (gr	oss) at the begin	ning of the year.	Interest expense for th	e bonds	payable was	
12 percent, while interest on the no balances. Selling and administrativ	tes payable was e expenses were	10 percent. The \$33,000, and the	se are based on Dece ne tax rate averaged 20	mber 31) percent	, 2008, t.	
During 2009, the cash balance and	prepaid expense	balance were u	inchanged. Accounts r	eceivabl	le and inventory	
each increased by 20 percent, and December 31, 2009, at a cost of \$4	0,000. A cash di	vidend of \$6,100) was paid to common	shareho	Iders at the end	
of 2009. Also, notes payable increa account did not change.	sed by \$10,000 a	and bonds payat	te decreased by \$15,0	iuu. The	COMMON STOCK	
a. Prepare an income statement fo	r 2009.					
Prepare a balance sheet as of C Prepare a statement of cash flow	ecember 31, 200 /s for the year en	9. ding December	31, 2009.			
		Solut	ion			
roblem 2-29						
nstructions						
Use the templates below to meet t		of the problem.				
. Prepare an income statement fo	r the year 2009.					
Key Facts: Sales	\$330,000					
Cost of goods sold	60%	of sales				
mortization expense lote payable interest	10%	of plant and eq	apment (gross)			
Sond payable interest Selling and administrative expense	12% 33,000					
Fax rate Cash dividend paid	20% \$6,100					
Change in cash balance Change in prepaid expense balanc	e -					
ncrease in accounts receivable ncrease in inventory	20% 20%					
ncrease in accounts payable Cost of additional machine	30% 60.000					
ncrease in notes payable Necrease in bonds payable	10,000 (15,000)					
Dominion Pine						
Income St	atement					
for the year ended I Sales	lecember 31, 20	\$330.000				
cost of goods sold		198,000				
iross profit elling and administrative expense		132,000 33,000				
mortization expense perating profit (EBIT)		37,500 61,500				
nterest expense		61,500				
nterest expense on bonds nterest expense on notes	\$9,000 3,000	12,000				
arnings before taxes axes		49,500				
axes arnings aftertaxes (EAT)		39,600	<u>.</u>			
Common stock dividends		6,100				
hange in Retained Earnings		\$33,500	_			
. Prepare a balance sheet as of D	ecember 31, 200	9.				
	Domini	on Pines Corp	oration			
	Balance Sheet	as of Decemb				
urrent Assets ash	\$15,000		Liabilities Accounts pavable		\$26,000	
ccounts receivable	27,000		Notes payable		40,000	
iventory repaid expenses	45,000 18,000		Bonds payable		60,000	
otal current assets	105,000		Total Liabilities		126,000	
apital Assets						
ross plant and equipment ess: Accumulated amortization	435,000 112,500		Shareholders' Equity Common stock	/	150,000	
let plant and equipment otal Assets	322,500 \$427,500		Retained earnings Total Liabilities and E	auitv	151,500 427,500	
		-		1		
. Prepare a statement of cash flow	Dominion	Pines Corporat	ion			
	Statemer	nt of Cash Flow Ended Decemb	rs er 31, 2009			
	. or the real t	Traea Deceiup				
Derating Activities: let Income (earnings aftertaxes)				\$39,600		
dd items not requiring an outlay o Amortization	f cash:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ash flow from operations			\$ 37,500	77,100		
hanges in non-cash working capi Increase in accounts receivable	al:		(4,500)			
Increase in inventory			(7,500)			
Increase in accounts payable Increase in notes payable			6,000 10,000			
Net change in non-cash working c				4,000		
Cash provided by operating activiti investing Activities:	95			81,100	1	
Increase in plant and equipment			(60,000)	(60.000	n	
Cash used in investing activities Financing Activities:				100,000	"	
Decrease in bonds payable Common stock dividends paid			(15,000) (6,100)			
Cash used in financing activities			(0,100)	(21,100	<u>)</u>	
Net increase in cash during the ye Cash, at beginning of year	ır			- 15,000		
Cash, end of year				\$15,000		
d. Identify the major accounts cont	ibuting to the cha	ange in cash pos	sition, from the three di	fferent c	components of	
the cash flow statement. Major accounts are net income (\$3						
ffset by an increase in plant and e	quipment (\$60,01	00), payments o	n bonds (\$15,000) and	divident	ds paid (\$6,100)	

Chapter 2

Discussion Questions

- 2-1. The price-earnings ratio will be influenced by the earnings and sales growth of the firm, the risk or volatility in performance, the debt-equity structure of the firm, the dividend payment policy, the quality of management, and a number of other factors. The ratio tends to be future-oriented, and will be higher the more positive the outlook
- 2-2. Book value per share is arrived at by taking the cost of the assets and subtracting out liabilities and preferred stock and dividing by the number of common shares outstanding. It is based on the historical costs of the assets. Market value per share is based on current assessed value of the firm in the marketplace and may bear little relationship to original cost. Besides the disparity between book and market value caused by the historical cost approach, other contributing factors are the growth prospects for the firm, the quality of management, and the industry outlook. To the extent these are quite negative, or positive, market value may differ widely from book value.
- 2-3. The only way amortization generates cash flows for the company is by serving as a tax shield against reported income. Allowable amortization for tax purposes is known as capital cost allowance (CCA). In most instances this will be different than accounting amortization. This non-cash deduction may provide cash flow equal to the tax rate times the amortization charged. This much in taxes will be saved, while no cash payments occur.
- 2-4. Accumulated amortization is the sum of all past and present amortization charges, while amortization expense is the current year's charge. They are related in that the sum of all prior amortization expense should be equal to accumulated amortization (subject to some differential related to asset write-offs).
- 2-5. The balance sheet is based on historical costs. When prices are rising rapidly, historical cost data may lose much of their meaning particularly for plant and equipment and inventory.
- 2-6. The income statement and balance sheet are based on the accrual method of accounting, which attempts to match revenues and expenses in the period in which they occur. However, accrual accounting does not attempt to properly assess the cash flow position of the firm. The statement of changes in financial position fulfills this need.
- 2-7. The sections of the statement of cash flows are:

Cash flows from operating activities Cash flows from investing activities Cash flows from financing activities

The payment of cash dividends falls into the financing activities category.

- 2-8. We can examine the various sources that were utilized by the firm as indicated on the statement. Possible sources for the financing of an increase in assets might be profits, increases in liabilities, or decreases in other asset accounts.
- 2-9. Free cash flow is equal to cash flow from operating activities:
 - Minus: Capital expenditures required to maintain the productive capacity of the firm.
 - Minus: Dividends (required to maintain the payout on common stock and to cover any preferred stock obligation).

The analyst or banker normally looks at free cash flow to determine whether there are sufficient excess funds to pay back the loan associated with the leveraged buy-out.

2-10. Interest expense is a tax deductible item to the corporation, while dividend payments are not. The net cost to the corporation of interest expense is the amount paid multiplied by the difference of (one minus the applicable tax rate). The firm must bear the full burden of the cost of dividend payments.

Internet Resources and Questions

- 1. www.cica.ca/index.cfm/ci_id/12/la_id/1.htm
- 2. www.acsbcanada.org/index.cfm/ci_id/197/la_id/1.htm
- 3. <u>www.iasb.org</u>
- 4. <u>www.iasb.org/About+Us/About+the+IASB/IFRSs+around+the+world.htm</u>

Problems

2-1. Dental Drilling Company Income Statement

Sales	\$400,000
Cost of goods sold	<u>150,000</u>
Gross Profit	250,000
Selling and administrative expense	50,000
Amortization expense	80,000
Operating profit	120,000
Interest expense	30,000
Earnings before taxes	90,000
Taxes	19,800
Earnings after taxes	\$ 70,200

2-2.

4U Cards Ltd. Income Statement

Sales	\$800,000
Cost of goods sold	<u>300,000</u>
Gross profit	500,000
Selling and administration expense	40,000
Amortization expense	30,000
Operating profit	430,000
Interest expense	20,000
Earnings before taxes	410,000
Taxes	<u>110,000</u>
Earnings after taxes	300,000
Preferred stock dividends	80,000
Earnings available to common shareholders	<u>\$220,000</u>
Shares outstanding	100,000
Earnings per share	\$2.20

Frantic Fast Foods

2-3.

a. 2008 Earnings after taxes Shares outstanding Earnings per share	<u>\$390,000</u> 300,000 \$1.30
<i>b.</i> 2009 Earnings after taxes (\$390,000 × 120%) Shares outstanding Earnings per share	<u>\$468,000</u> 325,000 \$1.44

Earnings after taxes	<u>\$600,000</u>
Shares outstanding	300,000
Earnings per share	\$2.00

b. **2009**

Earnings after taxes ($600,000 \times 125\%$)	<u>\$750,000</u>
Shares outstanding (300,000 + 40,000)	340,000
Earnings per share	\$2.21

2-5. Brad Gravel Pitt Company

а.	Sales	\$327,000
	Cost of goods sold	<u>135,000</u>
	Gross profit	192,000

Gross profit (%) = $\frac{\text{Gross profit}}{\text{Sales}} = \frac{\$192,000}{\$327,000} = .59 = 59\%$

b. With a gross profit of 59%, Brad Gravel Pitt Company is outperforming the industry average of 52%.

2-6.

Censored Book Company Income Statement For the Year ended December 31, 2009

Sales (1,200 books at \$60 each)	\$72,000
Cost of goods sold (1,200 books at \$42 each)	50,400
Gross Profit	21,600
Selling expense	2,000
Amortization expense	
Operating profit	15,600
Interest expense	3,000
Earnings before taxes	12,600
Taxes @ 30%	3,780
Earnings after taxes	\$ 8,820

Lemon Auto Wholesalers Income Statement

<i>a</i> .	
Sales	\$700,000
Cost of goods sold @ 70%	<u>490,000</u>
Gross profit	210,000
Selling and administration expense @ 12%	84,000
Amortization expense	10,000
Operating profit	116,000
Interest expense	8,000
Earnings before taxes	108,000
Taxes @ 30%	32,400
Earnings after taxes	<u>\$ 75,600</u>

b.

2-7.

Sales	\$750,000
Cost of goods sold @ 66%	<u>495,000</u>
Gross profit	255,000
Selling and administration expense @ 14%	105,000
Amortization expense	10,000
Operating profit	140,000
Interest expense	15,000
Earnings before taxes	125,000
Taxes @ 30%	37,500
Earnings after taxes	<u>\$ 87,500</u>

Ms. Fender's idea will increase profitability.

2-8. Sales

Cost of goods sold Gross profit Selling and administrative expense Amortization expense Operating profit Interest expense Earnings before taxes Taxes Earnings aftertaxes Preferred stock dividends Earnings available to common shareholders Shares outstanding Earnings per share

2-9. Dog River Company	
a. Operating profit (EBIT)	\$200,000
Interest expense	10,000
Earnings before taxes (EBT)	190,000
Taxes	61,250
Earnings aftertaxes (EAT)	128,750
Preferred dividends	18,750
Available to common shareholders	<u>\$110,000</u>
Common dividends	\$ 30,000
Increase in retained earnings	<u>\$ 80,000</u>
Earnings per Share = <u>Earnings available to common</u> Number of shares of common = \$110,000/20,000 shares = \$5.50 per share	
Dividends per Share = \$30,000/20,000 shares = \$1.50 per share	
b. Increase in retained earnings = $\$80,000$ c. Price/earnings ratio = $\$26.40/\5.50 = 4.8 ×	
2-10. Johnson Alarm Systems	
<i>a</i> . Retained earnings, December 31, 2009	\$800,000
Less: Retained earnings, December 31, 2008	<u>640,000</u>

Less: Retained earnings, December 31, 2008	<u>640,000</u>
Change in retained earnings	160,000
Add: Common stock dividends	<u>60,000</u>
Earnings available to common shareholders	\$220,000

b. Earnings per share	= \$220,000/ 50,000 shares
	= \$4.40 per share
c. Price/earnings ratio	= \$13.20/ \$4.40

$$=3 \times$$

2-11.	Oka Snack Delights, Inc.	
a. Operating prop	fit (EBIT)	\$210,000
Interest exp	ense	30,000
Earnings befor	re taxes (EBT)	180,000
Taxes		59,300
Earnings after	taxes (EAT)	120,700
Preferred d	ividends	24,700
Available to c	ommon shareholders	<u>\$ 96,000</u>
	ividends	\$ 36,000
Increase in ret	ained earnings	<u>\$ 60,000</u>

Earnings per Share	= Earnings available to common shareholders
	Number of shares of common stock outstanding
	= \$96,000/16,000 shares
	= \$6.00 per share

Dividends per Share = \$36,000/16,000 shares = \$2.25 per share

b. Increase in retained earnings = \$60,000

2-12. Common stock – noncurrent Accounts payable – current Preferred stock – noncurrent Prepaid expenses – current Bonds payable – noncurrent Inventory – current Inventory – current Marketable securities – current Accounts receivable – current Plant and equipment – noncurrent Accrued wages payable – current Retained earnings – noncurrent

2-13.	Assets		
Current Assets:			
Cash	•••••		\$ 10,000
Marketable securities			20,000
Accounts receivable	\$	548,000	
Less: Allowance for ba	ad debts	6,000	
			42,000
Inventory			66,000
Total Current Asset	S		138,000
Other Assets:			
Investments	•••••		20,000
Capital Assets:			
Plant and equipment		580,000	
Less: Accumulated am	ortization <u>3</u>	800,000	
Net plant and equipment.	•••••		380,000
Total Assets			<u>\$538,000</u>

Liabilities and Shareholders' Equity

Current Liabilities:	
Accounts payable	\$ 35,000
Notes payable	33,000
Total current Liabilities	68,000
Long-Term Liabilities	
Bonds payable	136,000
Total Liabilities	204,000
Shareholders' Equity:	
Preferred stock, 1,000 shares outstanding	50,000
Common stock, 100,000 shares outstanding	188,000
Retained earnings	96,000
Total Shareholders' Equity	334,000
Total Liabilities and Shareholders' Equity	<u>\$538,000</u>

2-14. Landers Nursery and Garden Stores

Current assets Capital assets Total assets – Current liabilities – Long-term liabilities Shareholders' equity – Preferred stock obligation Net worth assigned to common	$\begin{array}{r} \$220,000\\ \underline{170,000}\\ 390,000\\ 80,000\\ \underline{140,000}\\ 170,000\\ \underline{40,000}\\ \$130,000 \end{array}$
Common shares outstanding Book value (net worth) per share	25,000 \$5.20
2-15. Holtzman Corporation	
 a. Total assets – Current liabilities – Long-term liabilities Shareholders' equity – Preferred stock Net worth assigned to common 	
Common shares outstanding Book value (net worth) per share	20,000 \$10.50
<i>b</i> . Earnings available to common	<u>\$22,000</u>
Shares outstanding Earnings per share	20,000 \$1.10
P/E ratio × earnings per share = price $15 \times \$1.10$ = $\$16.50$	

c. Market value per share (price) to book value per share \$16.50/\$10.50 = 1.57

2-16	. Bradley Gyps	um Company	
а.	Total assets		\$1,900,000
	- Current liabilities		700,000
	- Long-term liabilities		580,000
	Shareholders' equity	•••••	620,000
	- Preferred stock		170,000
	Net worth assigned to common	l	<u>\$ 450,000</u>
	Common shares outstanding		30,000
	Book value (net worth) per sha	re	\$15.00
b.	Earnings available to common.		<u>\$42,000</u>
	Shares outstanding		30,000
	Earnings per share		\$1.40
	P/E ratio × earnings per share	= price	
	15 × \$1.40	= \$21.00	
С.	Market value per share (price)	to book value per	r share
	\$21.00/\$15.00	= 1.4	

2-17. Bradley Gypsum Company (Continued)

$2 \times \text{book value}$	= price
2 × \$15.00	= \$30.00
P/E ratio	= \$30.00/\$1.40
	= 21.43

- **2-18.**1. Balance Sheet (BS)
 - 2. Income Statement (IS)
 - 3. Current Assets (CA)
 - 4. Capital Assets (Cap A)
 - 5. Current Liabilities (CL)
 - 6. Long-Term Liabilities (LL)
 - 7. Shareholders Equity (SE)

Indicate Whether	If the Item is on	
the Item is on	Balance Sheet,	.
Balance Sheet or	Designate Which	Item
Income Statement	Category	
BS	SE	Retained earnings
IS		Income tax expense
BS	CA	Accounts receivable
BS	SE	Common stock
BS	LL	Bonds payable maturity 2012
BS	CL	Notes payable (6 months)
IS		Net income (EAT)
IS		Selling and adm. expenses
BS	CA	Inventories
BS	CL	Accrued expenses
BS	CA	Cash
BS	Cap A	Plant and equipment
IS		Sales
IS		Operating expenses
BS	CA	Marketable securities
BS	CL	Accounts payable
IS		Interest expense
BS	CL	Income tax payable

2-19. Increase in inventory -- decreases cash flow (use)
Decrease in prepaid expenses -- increases cash flow (source)
Decrease in accounts receivable -- increases cash flow (source)
Increase in cash -- increases cash flow (source)
Decrease in inventory -- increases cash flow (source)
Dividend payment -- decreases cash flow (use)
Increase in short-term notes payable -- increases cash flow (source)
Amortization expense - does not affect cash flow
Decrease in accounts payable -- decreases cash flow (use)
Increase in long-term investments -- decreases cash flow (use)

2-20. Rogers Corporation – Evans Corporation

	Rogers	Evans
Gross profit	\$880,000	\$880,000
Selling and adm. expense	120,000	120,000
Amortization	<u>360,000</u>	60,000
Operating profit	400,000	700,000
Taxes (40%)	<u>160,000</u>	<u>280,000</u>
Earnings aftertaxes	<u>240,000</u>	<u>420,000</u>
Plus amortization expense	360,000	60,000
Cash Flow	\$600,000	\$480,000

Rogers had \$300,000 (operating profit difference) more in amortization, which provided \$120,000 ($0.40 \times $300,000$) more in cash flow. Rogers paid $.4 \times 300,000 = $120,000$ less taxes.

2-21. Solitude Corporation Statement of Cash Flows For the Year Ended December 31, 2009

Operating activities:	
Net income (earnings aftertaxes)	\$ 73,800
Add items not requiring an outlay of cash:	
Amortization	11,070
Cash flow from operations	84,870
Changes in non-cash working capital:	
Decrease in accounts receivable 7,380	
Increase in inventory (22,140)	
Increase in accounts payable 25,830	
Increase in taxes payable $(7,380)$	
Net change in non-cash working capital	3,690
Cash provided by operating activities	88,560
Investing activities:	
Increase in plant and equipment	
Cash used in investing activities	(25,830)
C	
Financing activities:	
Issue of common stock 22,140	
Common stock dividends paid $(36,900)$	
Cash used in financing activities	(14,760)
Net increase in cash (equivalents) during the year	\$ 47,970
Cash, beginning of year	29,520
Cash, end of year	<u>\$ 77,490</u>
	<u> </u>

Waif Corporation

Statement of Cash Flows

For the Year Ended December 31, 2009

Operating activities:	
Net income (earnings aftertaxes)	\$ 91,000
Add items not requiring an outlay of cash:	
Amortization <u>\$ 22,000</u>	22,000
Cash flow from operations	113,000
Changes in non-cash working capital:	
Increase in accounts receivable (12,600)	
Decrease in inventory	
Decrease in accounts payable (10,000)	
Net change in non-cash working capital	<u>(15,500)</u>
Cash provided by operating activities	97,500
Investing activities:(48,000)Increase in plant and equipment27,000Sale of land27,000Cash used in investing activities1000	(21,000)
Financing activities:	
Retirement of bonds payable	
Issue of common stock	
Common stock dividends paid	
Cash used in financing activities	<u>(39,400)</u>
Net increase in cash (equivalents) during the year	37,100
Cash, beginning of year Cash, end of year	<u>17,400</u> <u>\$ 54,500</u>

Crosby Corporation Statement of Cash Flows For the Year Ended December 31, 2009

Operating activities:	
Net income (earnings aftertaxes)	\$160,000
Add items not requiring an outlay of cash:	
Amortization <u>\$ 150,000</u>	150,000
Cash flow from operations	310,000
Increase in accounts receivable (50,000)	
Increase in inventory	
Decrease in prepaid expenses 20,000	
Increase in accounts payable 190,000	
Decrease in accrued expenses $(20,000)$	
Net change in non-cash working capital	120,000
Cash provided by operating activities	430,000
Investing activities:	
Decrease in investments	
Increase in plant and equipment (400,000)	
Cash used in investing activities	(390,000)
- -	
Financing activities:	
Increase in bonds payable	
Preferred stock dividends paid	
Common stock dividends paid	
Cash used in financing activities	(<u>10,000</u>)
Net increase (decrease) in cash	30,000
Cash, at beginning of year	70,000
Cash, end of year	<u>\$100,000</u>

2-23.

- **2-24.** Cash flow provided by operating activities exceeds net income by \$270,000. This occurs primarily because we add back amortization of \$150,000 and accounts payable increases by \$190,000. Thus, the reader of the cash flow statement gets important insights as to how much cash flow was developed from daily operations.
- **2-25.** The buildup in plant and equipment of \$400,000 (gross) and \$250,000 (net) has been financed, in part, by the large increase in accounts payable (190,000). This is not a very satisfactory situation. Short-term sources of funds can always dry up, while capital asset needs are permanent in nature. The firm may wish to consider more long-term financing, such as a mortgage, to go along with profits, the increase in bonds payable, and the add-back of amortization.

2-26. Book value Per share	= <u>Shareholders' equity - Preferred stock</u> Common shares outstanding
Book value per share (2008)	$= \underline{(\$1,120,000 - \$90,000)}_{120,000} = \underline{\$1,030,000}_{120,000} = \$8.58$
Book value per share (2009)	$= \underline{(\$1,220,000 - \$90,000)}_{120,000} = \underline{\$1,130,000}_{120,000} = \$9.42$
2-27. Market value P/E ratio	$e = 2.4 \times \$9.42 = \22.61 = $\$22.61/\1.25 = 18.09 or 18x

2-28. Winfield Corporation				
Statement of Cash Flows, December 31, 2009				
Operating activities:				
Net income (earnings aftertaxes)	\$ 14,000			
Items not requiring cash:				
Amortization (buildings) \$10,50	00			
Gain on sale of investment (5,25)	0)			
Loss on sale of equipment $1,05$	<u>50</u>			
	6,300			
Cash flow from operations:	20,300			
Changes in non-cash working capital:				
Increase in accounts receivable (2,45	50)			
Increase in inventory	50)			
Increase in prepaid expenses (17	75)			
Decrease in accounts payable (1,75	50)			
Increase in notes payable	25*			
Increase in accrued expenses 1,92	25			
Decrease in interest payable (17	75)			
Net change in non-cash working capital	(5,250)			
Cash provided by operating activities	15,050			
Investing activities:				
Proceeds from the sale of investments 8,75	50			
Proceeds from the sale of equipment 2,45	50			
Purchase of equipment	50)			
Purchase of land (see note) (8,75	<u>50)</u>			
Cash used in investing activities	(13,300)			
Financing activities:				
Increase in bonds payable	50			
Common stock dividends paid	50)			
Cash provided by financing activities	(1,400)			
Net increase in cash	350			
Cash, beginning of year	1,400			
Cash, end of year	<u>\$ 1,750</u>			
Issued note of \$8,750 for land purchase (non-cash); due June 30, 2010. *Notes payable (trade) might be included in operating or financing activ	ities			

*Notes payable (trade) might be included in operating or financing activities.

2-29.

a.

Dominion Pines Corporation

Income Statement

For the Year Ending December 31, 2009

Sales	\$330,000
Cost of goods sold @ 60%	<u>198,000</u>
Gross profit	132,000
Selling and administration expense	33,000
Amortization expense	37,500
Operating profit	61,500
Interest expense (1)	12,000
Earnings before taxes	49,500
Taxes @ 20%	9,900
Earnings aftertaxes	<u>\$39,600</u>

(1) Interest expense = $(12\% \times \$75,000 + 10\% \times \$30,000) = \$12,000$

b.

Dominion Pines Corporation

Balance Sheet December 31, 2009

Cash	\$ 15,000	Accounts payable	\$ 26,000
Accounts receivable	27,000	Notes payable	40,000
Inventory	45,000	Bonds payable	60,000
Miscellaneous	18,000		
Current assets	105,000	Total liabilities	126,000
Capital assets:		Shareholders' equity:	
Plant and Equipment	435,000	Common stock	150,000
less: acc. amortization	n <u>112,500</u>	Retained earnings	151,500
Net plant & equipment	nt <u>322,500</u>		
Total assets	<u>\$427,500</u>	Total liabilities & equity	<u>\$427,500</u>

Acc. Amortization = \$75,000 + \$37,500 = \$112,500 Retained Earnings = \$118,000 + \$39,600 - \$6,100 = \$151,500

Dominion Pines Corporation Statement of Cash Flows For the Year Ended December 31, 2009

Operating activities:				
Net income (earnings aftertaxes)				
Add items not requiring an outlay of cash:				
Amortization <u>\$ 37,500</u>	37,500			
Cash flow from operations	77,100			
Increase in accounts receivable (4,500)				
Increase in inventory				
Increase in accounts payable 6,000				
Increase in notes payable 10,000*				
Net change in non-cash working capital	4,000			
Cash provided by operating activities	81,100			
Investing activities:Increase in plant and equipmentCash used in investing activities	(60,000)			
Financing activities:				
Decrease in bonds payable				
Common stock dividends paid				
Cash used in financing activities	(21,100)			
Net increase (decrease) in cash	0			
Cash, at beginning of year	15,000			
Cash, end of year	\$15.000			
, , , , , , , , , , , , , , , , , , , ,	<u>+ , </u>			

* **Note**: There is a healthy debate as to whether notes payable (trade related) should be included in operating or financing activities.

С.

2-30. Bobbie's Coffee Beans Ltd.

а.	2008	Net income Taxes @ 14.50% Income aftertaxes	\$52,000 <u>7,540</u> \$44,460
	2009	Net income Taxes @ 14.50% Income aftertaxes	\$124,000 <u>17,980</u> \$106,020

b. The average tax rate is 14.50%.

2-31.	Coastal Pipeline Corp.		
<i>a</i> . C	ash flow from operating activities	\$8.00	million
_ (Capital expenditures	1.50	
_ (Common share dividends	0.60	
_]	Preferred share dividends	0.25	
Fı	ree cash flow	\$5.65	million

b. Free cash flow represents the funds that are available for special financial activities, such as the acquisition of another firm.

2-32. Luba Corporation Income Statement Sales..... \$533,000 Cost of goods sold..... 226,000 307,000 Gross Profit..... Selling and administrative expense..... 77,000 Amortization expense..... 66,000 Operating profit..... 164,000 Interest expense..... 28,000 Earnings before taxes..... 136,000 Taxes @ 13.00%..... 17,680 Earnings aftertaxes..... \$118,320

2-33. Luba Corporation (Continued)

Tax savings on amortization	= \$66,000 × 13.00%
	= \$8,580

2-34. R.E. Forms Ltd.

Alberta	Net income	\$75,000
	Taxes @ 14.00%	10,500
	Income aftertaxes	\$64,500
Ontario	Net income	\$75,000
	Taxes @ 16.5%	12,375
	Income aftertaxes	\$62,625

a. Investment	\$14,000	
Bond interest @ 6.0%	\$840.00	
Marginal tax rate (Saskatchewan)	35.00%	
Combined taxes payable	294.00	
Aftertax bond yield (return)	\$546.00	
Aftertax yield		
\$546.00/ \$14,0	$000 \times 100\% = 3.90\%$	
Investment	\$14,000	
Share dividend @ 5.0%	\$700.00	
Marginal tax rate (Saskatchewan)	7.30%	
Combined taxes payable	51.10	
Aftertax bond yield (return)	\$648.90	
Aftertax yield		
\$648.9/ \$14.0		

J.B. Wands

The dividend provides a better aftertax yield (return).

b. Bond interest is a fixed payment. Share dividends may not be paid and shares are subject to capital gains and losses. This makes them riskier.

Foundations of Fin. Mgt.

2-35.

Billie Fruit

Top bracket (Investment of \$20,000)

2-36.

Share dividend @ 7.0%	\$1,400.00
Marginal tax rate (Yukon)	17.23%
Combined taxes payable	241.22
Aftertax dividend yield (return)	\$1,158.78
Aftertax yield	
Better: \$1,158.78/ \$20,00)0 × 100% = 5.79%
Capital gain @ 7.0%	\$1,400.00
Marginal tax rate (Yukon)	21.20%
Combined taxes payable	<u>296.80</u>
Aftertax bond yield (return)	\$1,103.20
Aftertax yield	
\$1,103.20/ \$20,00	$00 \times 100\% = 5.52\%$

Middle bracket (\$37,885 to \$59,180)

Share dividend @ 7.0%	\$1,400.00
Marginal tax rate (Yukon)	4.40%
Combined taxes payable	61.60
Aftertax dividend yield (return)	\$1,338.40
Aftertax yield	
Better: \$1,338.40 \$20,000	× 100% = 6.69%
Capital gain @ 7.0%	\$1,400.00
Marginal tax rate (Yukon) 1	5.84%
Combined taxes payable	221.76
Aftertax bond yield (return)	\$1,178.24
Aftertax yield	
\$1,178.24/ \$20,000	× 100% = 5.89%

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2-37. Banff Corporation

Yield is 7% On each \$100 investment

Interest paid	\$7.00
Tax savings @ 40% Combined bondholder tax payable @ 39%	2.80 2.73
Net loss to government (\$2.80 - \$2.73)	\$0.07