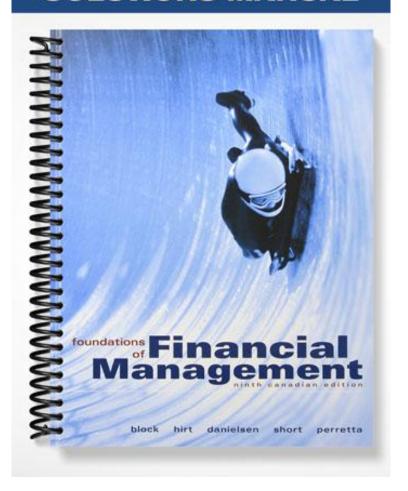
SOLUTIONS MANUAL



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, for private companies, is based on historical costs. When prices are rising rapidly, historical cost data may lose much of their meaning particularly for plant, equipment and inventory. However, the balance sheet of public companies using IFRS is based on market values and opposite order whereby non-current assets are listed ahead of current assets. The same applies to the liabilities section that lists non-current liabilities first.
- 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. The values on these statements will differ for public companies using IFRS compared to private firms.
- 2-7. The sections of the statement of cash flows and sources of information are:

Cash flows from operating activities (Income statement)
Cash flows from investing activities (non-current assets section of balance sheet)
Cash flows from financing activities (non-current liabilities and equity section)

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 (a company with limited cash acquiring stocks of another company to acquire control).

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 cash outflow of dividend payments because they are not an expense, but rather a distribution out of retained earnings.

Internet Resources and Questions

- 1. www.cica.ca
- 2. www.cma-canada.org
- 3. www.cga-canada.org
- 4. <u>www.iasb.org.</u>
- 5. www.kpmg.ca/taxi
- 6. www.pwc.com/ca/tax
- 7. www.cra-arc.gc.ca

Problems

(The following solutions use the 2010 tax rates in the text. The 2012 rates are also shown but subject to change).

2-1. Hansen Auto Parts Income Statement

Sales	\$470,000
Cost of goods sold	<u>140,000</u>
Gross Profit	330,000
Selling and administrative expense	60,000
Amortization expense	70,000
Operating profit	200,000
Interest expense	40,000
Earnings before taxes	160,000
Taxes (22%)	35,200
Earnings after taxes	\$ <u>124,800</u>

2-2. Virginia Slim Wear Income Statement

Sales	\$600,000
Cost of goods sold	200,000
Gross profit	400,000
Selling and administration expense	40,000
Amortization expense	20,000
Operating profit	340,000
Interest expense	30,000
Earnings before taxes	310,000
Taxes	100,000
Earnings after taxes	210,000
Preferred stock dividends	80,000
Earnings available to common shareholders	\$130,000
Shares outstanding	100,000
Earnings per share	\$1.30

2-3. Far East Fast Foods

a. **2011**

Earnings after taxes	<u>\$230,000</u>
Shares outstanding	200,000
Earnings per share	\$1.15

b. **2012**

Earnings after taxes ($$230,000 \times 125\%$)	<u>\$287,500</u>
Shares outstanding	230,000
Earnings per share	\$1.25

2-4. Sheridan Travel

b. New Net Income: \$600,000 x 125% = \$750,000
Shares: 300,000 + 40,000 = 340,000 shares
New EPS =
$$\frac{750,000}{340,000}$$
 = \$2.21 per share

2-5. Kevin Bacon and Pork Company

Gross profit (%) =
$$\frac{\text{Gross profit}}{\text{Sales}} = \frac{\$132,000}{\$240,000} = .55 = 55\%$$

With a gross profit of 55%, Kevin Bacon and Pork Company is under performing the industry average of 60%.

2-6. Aztec Book Company Income Statement For the Year ended December 31, 2012

7. Carr Auto Wholesalers	
Earnings after taxes	<u>\$13,920</u>
Taxes @ 20%	<u>3,480</u>
Earnings before taxes	17,400
Interest expense	5,000
Operating profit	22,400
Amortization expense	5,000
Selling expense	2,000
Gross Profit	29,400
Cost of goods sold (1,400 books at \$63 each)	88,200
Sales (1,400 books at \$84 each)	\$117,600

2-7 **Income Statement**

a.	
Sales	\$900,000
Cost of goods sold @ 65%	585,000
Gross profit	315,000
Selling and administration expense @ 9%	81,000
Amortization expense	10,000
Operating profit	224,000
Interest expense	8,000
Earnings before taxes	216,000
Taxes @ 30%	64,800
Earnings after taxes	<u>\$151,200</u>

b.	
Sales	\$1,000,000
Cost of goods sold @ 60%	600,000
Gross profit	400,000
Selling and administration expense @ 12%	120,000
Amortization expense	10,000
Operating profit	270,000
Interest expense	<u>15,000</u>
Earnings before taxes	255,000
Taxes @ 30%	76,500
Earnings after taxes	<u>\$ 178,500</u>

Ms. Hood'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 after taxes

Preferred stock dividends

Earnings available to common shareholders

Shares outstanding

Earnings per share

2-9.	David's Magic Stores	
a.	Operating profit (EBIT)	\$210,000
	Interest expense	30,000
	Earnings before taxes (EBT)	180,000
	Taxes	59,300
	Earnings after taxes (EAT)	120,700
	Preferred dividends	24,700
	Available to common shareholders	<u>\$ 96,000</u>

Earnings per Share = <u>Earnings available to common shareholders</u>

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. Payout ratio = 2.25/ 6.00 = .375 = 37.5%
- c. Increase in retained earnings = \$60,000
- *d.* Price/earnings ratio = \$90/\$6.00 = 15.0

2-10. Thermo Dynamics

a. Retained earnings, December 31, 2011	\$450,000
Less: Retained earnings, December 31, 2012	400,000
Change in retained earnings	50,000
Add: Common stock dividends	25,000
Earnings available to common shareholders	\$ 75,000

b. Earnings per share = \$75,000/20,000 shares

= \$3.75 per share

- c. Payout ratio = \$25,000/\$75,000 = .333 = 33%
- *d.* Price/earnings ratio = \$30.00/\$3.75 = 8x

2-11. Brandon Fast Foods Inc.

a. Operating Income \$210,000 – Taxes \$59,300 – Interest \$30,000 = Net income after taxes \$120,700

EPS = \$96,000 / 16,000 shares = \$6.00 EPS

Common Dividend Per Share = Div. paid \$36,000/16,000 shares = **\$2.25 Div. Per Share**

b. Increase in RE = Income \$120,700 - Common Dividends \$24,700 = \$60,000.

2-12.

Common stock – noncurrent

Accounts payable – current

Preferred stock – noncurrent

Prepaid expenses – current

Bonds payable – noncurrent

Inventory – current

Investments – noncurrent

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
I	Marketable securities		20,000
1	Accounts receivable	\$48,000	
	Less: Allowance for bad debts	6,000	
			42,000
I	nventory		66,000
	Total Current Assets		138,000
Oth	er Assets:		
I	nvestments		20,000
Cap	oital Assets:		
I	Plant and equipment	680,000	
	Less: Accumulated amortization	300,000	
1	Net plant and equipment		380,000
Tot	al Assets		<u>\$538,000</u>
	Liabilities and Chanabaldons	.l T:4	
Cur	Liabilities and Shareholders	Equity	
	rent Liabilities:		\$ 25,000
	Accounts payable		\$ 35,000
1	Notes payable		33,000
Lor	Total current Liabilities		68,000
	ng-Term Liabilities		126 000
I	Bonds payable		<u>136,000</u>
Cha	Total Liabilities		204,000
	reholders' Equity:		50 000
	Preferred stock, 1,000 shares outstanding		50,000
(Common stock, 100,000 shares outstanding	ug	188,000

CHAPTER 2

Retained earnings Total Shareholders' Equity	96,000 334,000
Total Liabilities and Shareholders' Equity	\$538,000
2-14.	<u>\$000,000</u>
Bengal Wood Company	
Current assets	\$100,000
Capital assets	140,000
Total assets	240,000
Current liabilities	60,000
Long-term liabilities	90,000
Shareholders' equity	90,000
Preferred stock obligation	20,000
Net worth assigned to common	\$ 70,000
Common shares outstanding	17,500
_	•
Book value (net worth) per share	\$4.00
Book value (net worth) per share 2-15. Monique's Boutique	\$4.00
	\$4.00 \$600,000
2-15. Monique's Boutique a. Total assets — Current liabilities	·
2-15. Monique's Boutique a. Total assets — Current liabilities — Long-term liabilities	\$600,000
2-15. Monique's Boutique a. Total assets — Current liabilities	\$600,000 150,000
2-15. Monique's Boutique a. Total assets	\$600,000 150,000 <u>120,000</u> 330,000 <u>75,000</u>
2-15. Monique's Boutique a. Total assets — Current liabilities — Long-term liabilities Shareholders' equity	\$600,000 150,000 <u>120,000</u> 330,000
2-15. Monique's Boutique a. Total assets	\$600,000 150,000 <u>120,000</u> 330,000 <u>75,000</u>
2-15. Monique's Boutique a. Total assets	\$600,000 150,000 120,000 330,000 75,000 \$255,000
2-15. Monique's Boutique a. Total assets	\$600,000 150,000 120,000 330,000 75,000 \$255,000
2-15. Monique's Boutique a. Total assets	\$600,000 150,000 120,000 330,000 75,000 \$255,000 30,000 \$8.50

P/E ratio \times earnings per share = price $12 \times \$1.12$ = \$13.44

c. Market value per share (price) to book value per share \$13.44/\$8.50 = 1.58

2-16. Phelps Labs \$1,800,000 a. Total assets..... Current liabilities..... 595,000 630,000 – Long-term liabilities..... Shareholders' equity..... 575,000 - Preferred stock..... 165,000 Net worth assigned to common...... \$ 410,000 Common shares outstanding...... 20,000 Book value (net worth) per share...... \$20.50 b. Earnings available to common....... \$45,000 Shares outstanding..... 20,000 Earnings per share..... \$2.25 P/E ratio \times earnings per share = price $13 \times \$2.25 = \29.25

2-17. Phelps Labs (Continued)

c. Market value per share (price) to book value per share

 $2 \times \text{book value} = \text{price}$ $2 \times \$20.5 = \41.00

\$29.25/\$20.50

P/E ratio = \$41.00/\$2.25

= 1.43

= 18.22

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 the Item is on	If 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

Indicate Whether the Item is on Balance Sheet or Income Statement	If the Item is on Balance Sheet, Designate Which Category	Item
BS	SE	Retained earnings
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 -- decreases cash flow (use)

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

(However in the cash flow statement it is added to net income to determine cash provided by operations)

Decrease in accounts payable -- decreases cash flow (use)

Increase in long-term investments -- decreases cash flow (use)

2-20. Jupiter Corporation – Saturn Corporation

	Jupiter	Saturn
Gross profit	\$700,000	\$700,000
Selling and adm. expense	160,000	160,000
Amortization	240,000	400,000
Operating profit	300,000	140,000
Taxes (40%)	<u>120,000</u>	<u>56,000</u>
Earnings after taxes	<u>180,000</u>	<u>84,000</u>
Plus amortization expense	240,000	400,000
Cash Flow	\$420,000	\$484,000

Saturn had \$160,000 more in amortization, which provided \$64,000 $(0.40 \times $160,000)$ more in cash flow. We observe that Saturn's taxes were less by: $$120,000 - $56,000 = $64,000 (0.40 \times $160,000)$.

2-21. Loofa Corporation

a. Statement of Cash Flows
For the Year Ended December 31, 2012

Operating activities:	
Net income (earnings after taxes)	\$ 54,610
Add items not requiring an outlay of cash:	
Amortization	8.190
Cash flow from operations	62,800
Changes in non-cash working capital:	
Decrease in accounts receivable 5,460	
Increase in inventory (16,385)	
Increase in accounts payable 19,115	
Decrease in taxes payable (5,455)	
Net change in non-cash working capital	2,735
Cash provided by operating activities	65,535
Investing activities:	
Increase in plant and equipment (19,115)	
Cash used in investing activities	(19,115)
Financing activities:	
Issue of common stock	
Common stock dividends paid (27,305)	
Cash used in financing activities	(10,920)
Net increase in cash (equivalents) during the year	35,500
Cash, beginning of year	21,845
Cash, end of year	\$ 57,345

Major accounts contributing to positive change in cash position b. are: net income, payables and common stock issuance. Negative change comes from inventory, plant and equipment and dividends paid.

2-22. **Waif Corporation**

Retirement of bonds payable.....

Issue of common stock.....

Common stock dividends paid......

Statement of Cash Flows a. For the Year Ended December 31, 2012

Operating activities:

Net income (earnings after taxes)	\$ 91,000
Add items not requiring an outlay of cash:	
Amortization	22,000
Cash flow from operations	113,000
Changes in non-cash working capital:	
Increase in accounts receivable (12,600)	
Decrease in inventory 7,100	
Decrease in accounts payable (10,000)	
Net change in non-cash working capital	(15,500)
Cash provided by operating activities	97,500
Investing activities:	
Increase in plant and equipment (48,000)	
Sale of land	
Cash used in investing activities	(21,000)
Financing activities:	

(40,000)

40,000

(39,400)

Cash used in financing activities	(39,400)
Net increase in cash (equivalents) during the year	37,100
Cash, beginning of year	17,400
Cash, end of year	\$ 54,500

b. Major accounts contributing to positive change in cash position are: net income, amortization, sale of land and common stock issuance. Negative change from plant and equipment, bond retirement, and dividends paid.

2-23. Maris Corporation

Statement of Cash Flows For the Year Ended December 31, 2012

Operating activities:

Net income (earnings after taxes)	\$250,000	
Add items not requiring an outlay of cas		
Amortization	<u>\$ 230,000</u>	<u>230,000</u>
Cash flow from operations		480,000
Increase in accounts receivable	(10,000)	
Increase in inventory	(30,000)	
Decrease in prepaid expenses	30,000	
Increase in accounts payable	250,000	
Decrease in accrued expenses	<u>(20,000)</u>	
Net change in non-cash working capital.	<u>220,000</u>	
Cash provided by operating activities	700,000	
sting activities:		

Investing activities:

Decrease in investments	10,000	
Increase in plant and equipment	<u>(600,000)</u>	
Cash used in investing activities	••••	(590,000)

Financing activities:

Increase in bonds payable	60,000	
Preferred stock dividends paid	(10,000)	
Common stock dividends paid	(140,000)	
Cash used in financing activities		(90,000)
Net increase (decrease) in cash		20,000
Cash, at beginning of year		100,000
Cash, end of year		<u>\$120,000</u>

2-24.

Cash flow provided by operating activities exceeds net income by \$450,000. This occurs primarily because we add back amortization of \$230,000 and accounts payable increases by \$250,000. 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 \$600,000 (gross) and \$370,000 (net) has been financed, in part, by the large increase in accounts payable (\$250,000). 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.

Book value =
$$(\$1,390,000 - \$90,000) = \$1,300,000 = \$8.67$$

	per share (2011)	150,000	150,000	
	Book value per share	= (\$1,490,000 - \$90,000) = 150,000	= <u>\$1,400,000</u> 150,000	<u>)</u> = \$9.33
	(2012)			
2-27	. Market val	lue = $2.8 \times \$9.33 = \26.12		
	P/E ratio	= \$26.12/ \$1.60		
		= 16.33 or 16x		
2-28	•	Winfield Corporation	on	
		Statement of Cash Flo	WS	
		December 31, 2012	,	
Ope	rating activit	ies:		
Net income (earnings after taxes)\$				
Add items not requiring an outlay of cash:				
		zation (buildings)	\$10,500	
Gain on sale of investment (5,250)				
Loss on sale of equipment 1,050				
				6,300
		om operations:		20,300
		non-cash working capital:		
		se in accounts receivable	(2,450)	
		se in inventory	(5,250)	
		se in prepaid expenses	(175)	
		se in accounts payable	(1,750)	
		se in accrued expenses	1,925	
		se in interest payable	(175)	(5.055)
	_	n non-cash working capital.		<u>(7,875)</u>
	Cash provide	ed by operating activities	••••	12,425

Investing activities:			
Proceeds from the sale of stock	8,750		
Proceeds from the sale of equipment	2,450		
Purchase of equipment	(15,750)		
Purchase of land (see note)	<u>(8,750)</u>		
Cash used in investing activities	• • • •	(13,300)	
Financing activities:			
Increase in notes payable	2,625		
Increase in bonds payable	5,250		
Common stock dividends paid	<u>(6,650)</u>		
Cash provided by financing activities	• • • • • • • • • • • • • • • • • • • •	1,225	
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, 2013.			

2-29. Gardner Corporation

a. Income Statement For the Year Ending December 31, 2012

Sales	\$220,000
Cost of goods sold @ 60%	132,000
Gross profit	88,000
Selling and administration expense	22,000
Amortization expense	20,000
Operating profit	46.000
Interest expense (1)	6,000
Earnings before taxes	40,000
Taxes @ 18%	7,200
Earnings after taxes	<u>\$32,800</u>

⁽¹⁾ Interest expense = $(10\% \times \$20,000 + 8\% \times \$50,000) = \$6,000$

b. Gardner Corporation

Balance Sheet December 31, 2012

Cash	\$ 10,000	Accounts payable	\$ 15,000
Accounts receivable	16,500	Notes payable	26,000
Inventory	27,500	Bonds payable	40,000
Prepaid expenses	12,000		
Current assets	66,000	Current liabilities	81,000
Capital assets:		Shareholders' equity:	
Plant and Equipment	285,000	Common stock	75,000
less: acc. amortization	70,000	Retained earnings	125,000
Net plant & equipmen	it <u>215,000</u>		
Total assets	<u>\$281,000</u>	Total liabilities & equity	<u>\$281,000</u>

Acc. Amortization = \$50,000 + \$20,000 = \$70,000Retained Earnings = \$105,000 + \$20,000 = \$125,000

c. Gardner Corporation

Statement of Cash Flows For the Year Ended December 31, 2012

Operating activities:	
Net income (earnings after taxes)	\$32,800
Add items not requiring an outlay of cash:	
Amortization	<u>20,000</u>
Cash flow from operations	52,800
Increase in accounts receivable (1,500)	
Increase in inventory (2,500)	
Increase in accounts payable 3,000	
Increase in notes payable* 6,000	
Net change in non-cash working capital	5,000
Cash provided by operating activities	57,800
Investing activities: Increase in plant and equipment (35,000)	
Cash used in investing activities	(35,000)
Cush used in investing denvines	(33,000)
Financing activities:	
Decrease in bonds payable(10,000)	
Common stock dividends paid (12,800)	
Cash used in financing activities	(<u>22,800)</u>
Net increase (decrease) in cash	0
Cash, at beginning of year	10,000
Cash, end of year	<u>\$10,000</u>

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

d. Major accounts contributing to positive change in cash position are: net income and amortization. Negative change is from plant and equipment, bonds payable and dividends paid.

2-30. Ron's Aerobics Ltd..

a.	2011	Net income	\$68,000
		Taxes @ 16.5%	11,220
		Income after taxes	<u>\$56,780</u>
	2012	Net income	\$142,000
		Taxes @ 13% (Text)	18,460
		Income after taxes	<u>\$123,540</u>

Note: Manitoba 2012 tax rate was actually changed to 15%

b. The average tax rate is 14.75%.

2-31. Inland Fisheries Corp.

a. Cash flow from operating activities	\$6.00 million
- Capital expenditures	2.00
- Common share dividends	0.75
- Preferred share dividends	0.35
Free cash flow	\$2.90 million

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

2-32.

Nix Corporation

Income Statement

Sales	\$485,000
Cost of goods sold	205,000
Gross Profit	280,000
Selling and administrative expense	70,000
Amortization expense	60,000
Operating profit	150,000
Interest expense	25,000
Earnings before taxes	125,000
Taxes @ 14.5% (Text)	18,125
Earnings after taxes	<u>\$106,875</u>

Note: The B.C. 2012 tax rate is changed to 13.5%

2-33. Nix Corporation (Continued)

Tax savings on amortization $= \$60,000 \times 14.5\%$ = \$8,700

2-34. R.E. Forms Ltd.

Alberta	Net income	\$75,000
	Taxes @ 14%	10,500
	Income after taxes	<u>\$64,500</u>
Ontario	Net income	\$75,000
	Taxes @ 16.5%	12,375
	Income after taxes	\$62,625
	(2012 rate changed t	to 15.5%)

2-35. J.B. Wands

a.	Investment (bonds)	\$14,000	
	Bond interest @ 6.0% x \$14,000 =		\$840.00
	Marginal tax rate (Saskatchewan)	35.00%	
	Deduct:Combined taxes payable 35%	% x \$840 =	<u>294.00</u>
	After tax bond yield (return)		\$546.00
	After tax yield = return / investment	x 100%	
	= \$546.00/ \$14,00	00 × 100% =	= 3.90%
	Investment (shares)	\$14,000	
	Investment (shares) Share dividend @ 5.0% x \$14,000 =	-	\$700.00
	,	-	\$700.00
	Share dividend @ 5.0% x \$14,000 =	17.5%	\$700.00 <u>122.50</u>
	Share dividend @ 5.0% x \$14,000 = Marginal tax rate (Saskatchewan)	17.5%	,
	Share dividend @ 5.0% x \$14,000 = Marginal tax rate (Saskatchewan) Deduct:Combined taxes payable 17.	17.5% 5 x \$700=	122.50

The dividend provides a slightly better after tax 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 the shares riskier. The result illustrates the "risk – return tradeoff".

2-36. Billie Fruit

A. Top bracket (Investment of \$20,00)	
Share dividend @ 7.0% x \$20,000 =	\$1,400.00
Marginal tax rate (Yukon) \$1,400 x 17.23%	+ -,
Deduct: Combined taxes payable	241.22
After tax dividend yield (return)	\$1,158.78
After tax yield = return / investment x 100%	1 7
$= \$1158.78/\$20,000 \times 1009$	% = 5.79%
<u> </u>	
Capital gain @ $7.0\% \times $20,000 =$	\$1,400.00
Marginal tax rate (Yukon) \$1,400 x 21.20%	
Deduct: Combined taxes payable	<u>296.80</u>
After tax bond yield (return)	\$1,103.20
After tax yield = return / investment x 100%	
Better: \$1,103.20/\$20,000 × 1009	% = 5.52%
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B. Middle bracket (\$35,000 to \$55,280)	
Share dividend @ 7.0%	\$1,400.00
Marginal tax rate (Yukon) 4.4%	
Combined taxes payable (4.4 x \$1,400)	<u>61.60</u>
After tax dividend yield (return)	\$1,338.40
After tax yield	
Better: \$1,338.40/\$20,000 × 1009	% = 6.69%
Capital gain @ 7.0%	\$1,400.00
Marginal tax rate (Yukon) 15.84%	
Combined taxes payable	221.76
After tax yield (return)	\$1,178.24
After tax yield	
$1,178.24/$ $20,000 \times 100\% = 5.89\%$	

2-37. Jasper Corporation

Net loss to government (\$2.80 - \$2.73)

Yield is 7% On each \$100 investment	
Interest paid to bondholder	\$7.00
Co.'s Tax savings @ 40%	

\$0.07