FA 2.3

EXERCISE 13-10 (25-30 minutes)

(a)

2010 To accrue the expense and liability for vacations:

Wages Expense 7,740 (1)

Vacation Wages Payable 7,740

To record vacation time paid:

No entry.

2011 To accrue the expense and liability for vacations:

Wages Expense 8,352 (2)

Vacation Wages Payable 8,352

To record vacation time paid:

Wage Expense 162

Vacation Wages Payable 6,966 (3)

Cash 7,128 (4)

- (1) 9 employees X \$10.75/hr. X 8 hrs./day X 10 days = \$7,740
- (2) 9 employees X \$11.60/hr. X 8 hrs./day X 10 days = \$8,352
- (3) 9 employees X \$10.75/hr. X 8 hrs./day X 9 days = \$6,966
- (4) 9 employees X \$11.00/hr. X 8 hrs./day X 9 days = \$7,128

(b)

2010 To record sick time paid:

Wages Expense 2,880 (1)

Cash 2,880

2011 To record sick time paid:

Wages Expense 3,960 (2)

Cash 3,960

- (1) 9 employees X \$10.00/hr. X 8 hrs./day X 4 days = \$2,880
- (2) 9 employees X \$11.00/hr. X 8 hrs./day X 5 days = \$3,960

EXERCISE 13-10 (Continued)

(c) Accrued liability at year-end (vacation pay only):

	2010	2011	
Jan. 1 balance	\$ 0	\$7,740	
+ accrued	7,740	8,352	
– paid	(0)	<u>(6,966)</u>	
Dec. 31 balance	<u>\$7,740</u> (1)	<u>\$9,126</u> (2)	

- (1) 9 employees X \$10.75/hr. X 8 hrs./day X 10 days = \$7,740
- (2) 9 employees X \$10.75/hr. X 8 hrs./day X 1 day = \$ 774 9 employees X \$11.60/hr. X 8 hrs./day X 10 days = <u>8,352</u> \$9,126

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EXERCISE 13-12 (15-20 minutes)

Perreault Corp.

Income Statement

For the Year Ended December 31, 2011

For the Year Ended December 31, 2011		
Revenue		\$10,000,000
Cost of goods sold		7,000,000
Gross profit		3,000,000
Administrative and selling expenses	\$1,000,000	
Profit-sharing bonus to employees	198,198	1,198,198
Income before income taxes		1,801,802
Income taxes (45%)		<u>810,811</u>
Net income		<u>\$ 990,991</u>
Calculation of bonus and tax: T = .45 (\$3,000,000 - \$1,000,000 - B) B = .20 (\$2,000,000 - B - T) B = .20 [\$2,000,000 - B45 (\$2,000,000 - B)] B = .20 (\$2,000,000 - B - \$900,000 + .45B) B = .20 (\$1,100,00055B) B = \$220,00011B 1.11B = \$220,000 Bonus = \$198,198.19 T = .45 (\$2,000,000 - \$198,198.19) T = .45 (\$1,801,801.81) Taxes = \$810,810.81 (b) Employee's Bonus Expense		

Bonus Payable

198,198

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EXERCISE 13-14 (10-15 minutes)

(a)	Cash (150 X \$4,000)	600,000	
	Sales		600,000
	Warranty Expense	17,000	
	Cash, Inventory, Accrued Payroll		17,000
	Warranty Expense (\$45,000* - \$17,000)	28,000	
	Estimated Liability Under		
	Warranties		28,000
	*(150 X \$300)		
(b)	Cash	600,000	
	Sales		600,000
	Warranty Expense	17,000	
	Cash, Inventory, Accrued Payroll		17,000

(c) The cash method of accounting for warranty costs is acceptable when the costs are not material or when the warranty period is relatively short. It may also be acceptable when the amount of the liability cannot be reasonably estimated or if future costs are not likely to be incurred.

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- 1.(a) The CICA Handbook for Private Enterprises section 3290 requires that, when some amount within the range appears at the time to be a better estimate than any other amount within the range, that amount be accrued. When no amount within the range is a better estimate than any other amount, the dollar amount at the low end of the range is accrued and the dollar amount of the high end of the range is disclosed. Since the information indicates that it is likely that a liability has been incurred at December 31, 2011, and a range of possible amounts can be reasonably determined, the criteria for recording a liability are met. In this case, therefore, Sugarpost Inc. would report a liability of \$900,000 at December 31, 2011.
 - (b) Under the Exposure Draft of Proposed Amendments to IAS 37 Provisions, Contingent Liabilities and Contingent Assets, the term "contingent liabilities" is eliminated. This is based on the fact that either a situation results in a liability or it does not; a contingency relates to a future event, not whether the obligation exists at the reporting date. Liabilities can arise only from unconditional (or non-contingent) obligations. Uncertainty about the amounts that might be payable in the future is taken into account in the measurement of the liability, not its existence. If a liability is recognized, it is measured, and it is the measurement that takes into account the uncertainties that exist. In this case, it is apparent that there is an unconditional liability and thus Sugarpost Inc. would report a liability at the expected value of the outcomes at December 31, 2011 (not at the \$900,000 minimum amount as discussed in part (a) for private enterprises GAAP).

- 2. Su Li Corp. would not be required to make any entry. The wage increase is for the coming two years and does not relate to the current or prior years.
- 3.(a) The loss should be accrued since both criteria (it is likely that a loss is incurred and the amount of the loss can be reasonably determined) for recording the contingency are met. Given that the loss is covered by insurance, except for the \$500,000 deductible, only the \$500,000 should be accrued.
 - (b) Under current IFRS requirements, the recognition criterion used to determine the chance of occurrence of a confirming future event is "probable," which is interpreted to mean "more likely than not." This is a somewhat lower hurdle than the "likely" required under private enterprise standards. If the amount cannot be measured reliably, no liability is recognized under IFRS either; however, the standard indicates that it is only in very rare circumstances that this would be the case. If recognized, IAS 37 requires the best estimate and an "expected value" method to be used to measure the liability. As in part (a) above, this would be the \$500,000 deductible.
- 4. This is a gain contingency because the amount to be received will be in excess of the carrying amount of the plant. Under private enterprise GAAP, gain contingencies are not recorded and are disclosed in the notes only when the probabilities are high that a gain contingency will become reality.

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EXERCISE 14-8 (15-20 minutes)

(a)	Equipment	86,349.00*	
	Cash		30,000.00
	Notes Payable		56,349.00
	*PV of \$75,000 @ 10% for 3 years		
	(\$75,000 X 0.75132)		\$56,349
	Down payment		30,000
	Capitalized value of equipment		<u>\$86,349</u>

Excel formula =PV(rate,nper,pmt,fv,type)

Using a financial calculator:

\$?	Yields \$56,349
10%	
3	
\$ 0	
(\$ 75,000)	
0	
	10% 3 \$ 0 (\$ 75,000)

(b) December 31, 2012:

Interest Expense (see schedule)..... 5,634.90

Note Payable...... 5,634.90

Year	10% Interest	Balance
12/31/11		\$56,349.00
12/31/12	\$5,634.90	61,983.90
12/31/13	6,198.39	68,182.29
12/31/14	6,817.71*	75,000.00

^{*} rounded by \$0.52

EXERCISE 14-8 (Continued)

December 31, 2013:

Interest Expense...... 6,198.39

December 31, 2014:

Interest Expense...... 6,817.71

Note Payable 75,000.00

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EXERCISE 14-9 (15-20 minutes)

(a)

January 1, 2011

(b) Schedule of Interest Expense and Bond Premium Amortization Effective Interest Method

12% Bonds Sold to Yield 10%

		Debit	Debit	Carrying
	Credit	Interest	Bond	Amount of
Date	Cash	Expense	Payable	Bonds
1/1/11	_	_	_	\$860,651.79
1/1/12	\$96,000.00	\$86,065.18	\$9,934.82	850,716.97
1/1/13	96,000.00	85,071.70	10,928.30	839,788.67
1/1/14	96,000.00	83,978.87	12,021.13	827,767.54

(c)	December 31, 2011			
	Bond Interest Expense 86,065.18			
	Bonds Payable 9,934.82			
	Interest Payable	96,000.00		
	January 1, 2012			
	Interest Payable 96,000.00			
	Cash	96,000.00		
(d)	December 31, 2013			
	Bond Interest Expense 83,978.87			
	Bonds Payable 12,021.13			
	Interest Payable	96,000.00		
	January 1, 2014			
	Interest Payable 96,000.00			

EXERCISE 14-9 (Continued)

(e) Although the effective interest method is required under IFRS per IAS 39.47, accounting standards for private enterprises do not specify that this method must be used and therefore, the straight-line method is also an option. The straight-line method is valued for its simplicity and might be used by companies whose financial statements are not constrained by this specific element of GAAP.

EXERCISE 14-17 (30-35 minutes)

Using either a financial calculator or Excel the effective interest rate on the bonds is calculated as follows:

Excel formula =RATE(nper,pmt,pv,fv,type)

Using a financial calculator:

\$ 784,000	
? %	Yields 6.135%
40	
\$ (48,000)	
\$ (800,000)	
0	
	? % 40 \$ (48,000) \$ (800,000)

Schedule of Bond Discount Amortization Effective Interest Method

12% Semi-annual Bonds Sold to Yield 12.27%

	6.0%	6.135%		
	Cash	Interest	Discount	Carrying
Date	Paid	Expense	Amortized	Amount
June 30 2004				\$784,000.00
Dec. 31 2004	\$48,000.00	\$48,099.92	\$99.92	784,009.92

June 30	2005	48,000.00	48,106.09	106.06	784,205.98
Dec. 31	2005	48,000.00	48,112.56	112.56	784,318.54
June 30	2006	48,000.00	48,119.47	119.47	784,439.01
Dec. 31	2006	48,000.00	48,126.80	126.80	784,564.81
June 30	2007	48,000.00	48,134.58	134.58	784,699.38
Dec. 31	2007	48,000.00	48,142.83	142.83	784,842.22
June 30	2008	48,000.00	48,151.60	151.60	784,993.81
Dec. 31	2008	48,000.00	48,160.90	160.90	785,154.71
June 30	2009	48,000.00	48,170.77	170.77	785,325.48
Dec. 31	2009	48,000.00	48,181.25	181.25	785,506.72
June 30	2010	48,000.00	48,192.36	192.36	785,699.09
Dec. 31	2010	48,000.00	48,204.17	204.17	785,903.25
June 30	2011	48,000.00	48,216.69	216.69	786,119.95
			:	2,119.95	

EXERCISE 14-17 (Continued)

Although not required, the entry at the issuance of the bonds:

6/30/04 Cash (\$800,000 X 98%) 784,000

(a)

At June 30, 2011 the carrying amount of the bonds is as indicated in the effective interest table:

Bonds payable \$800,000.00

Less: unamortized discount 13,880.05

<u>\$786,119.95</u>

June 30, 2011

Bonds Payable 786,119.95

Loss on Redemption of Bonds 45,880.05

Cash 832,000.00

Reacquisition price (\$800,000 X 104%)	\$832,000.00
Net carrying amount of bonds redeemed:	
Par value\$800,000.00	
Unamortized discount (13,880.05)	(786,119.95)
Loss on redemption	<u>\$45,880.05</u>
Cash (\$1,000,000 X 102%) 1,020,000	
Bonds Payable	1,020,000

EXERCISE 14-17 (Continued)

Using either a financial calculator or Excel the effective interest rate on the bonds is calculated as follows:

Excel formula =RATE(nper,pmt,pv,fv,type)

Using a financial calculator:

\$ 1,020,000	
? %	Yields 4.8853 %
40	
\$ (50,000)	
\$ (1,000,000)	
0	
	? % 40 \$ (50,000) \$ (1,000,000)

(b) December 31, 2011

Bond Interest Expense...... 49,830.06

Bonds Payable 169.94

Cash...... 50,000.00

 $($1,020,000 \times 4.8853\% = $49,830.06)$

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those radios that use a P+1						
amount and a BIS amount						

*EXERCISE 5-17 (15-20 minutes)

(a) Current Ratio:

<u>2011</u>	<u>2010</u>
<u>\$45,000 + \$91,000</u>	<u>\$13,000 + \$88,000</u>
\$20,000	\$15,000
= 6.80	= 6.73

Debt to total assets ratio:

<u>2011</u>	<u>2010</u>
<u>\$20,000</u>	<u>\$15,000</u>
\$158,000	\$112,000
= 12.7%	= 13.4%

Free cash flow:

	<u>2011</u>
Net cash provided by operating activities	\$42,000
Less: Purchase of equipment Dividends paid	(17,000) <u>(13,000</u>)
Free cash flow	<u>\$12,000</u>

(b) Marubeni's current ratio has increased slightly from 2010 to 2011, and remains in excess of 6. The debt to total asset ratio has

declined and remains at a very low percentage. The accounts receivable are climbing slightly and could be investigated. The company has excellent liquidity and financial flexibility.

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*EXERCISE 5-18 (15-20 minutes)

(a)	<u>2011</u>	<u>2010</u>
Current ratio	6.63	4.69
Acid test ratio	2.40	1.49

(b) Current cash debt coverage – Net cash provided from operating activities divided by average current liabilities:

Its current cash debt coverage is 1.23 to 1
$$\left(\frac{\$68,000}{\$55,500}\right)$$

(c) Carmichael's current and acid test ratios are both in excess of 1 and they both exhibit an increasing trend from 2010 to 2011. Its current cash debt coverage is excellent at 1.23 to 1. However, free cash flow is negative in 2011. Note also that accounts receivable and inventories have increased substantially from 2010 to 2011. While these increases impact liquidity ratios positively, if Carmichael has difficulty in collecting receivables or if sales slow and the inventory is not converted to cash, Carmichael's liquidity and financial flexibility will be negatively affected.
