Achievement Standard 90225

External Exam - Credits: 4

Analyse and interpret information and make recommendation(s) for a sole proprietor

Content studied in Standard			
Content	Reading - 'Accounting for NCEA Level 2 BOOK TWO	Revision Questions (Pages of NCEA Revision Guide) Pages 77– 91	
Calculate analysis measu	res selected from	n:	
Measures of profitability Mark-up percentage Gross profit percentage Expenses percentages Net profit percentage Return on equity percentage Return on total assets percentage Measures of liquidity Working capital	Page 248 - 255 Page 258 - 260	Work your way through the following Questions: Q1, Q2, Q3, Q4, Q6, Q7, Q8, Q9, Q11, Q13,Q14	
Current ratio/working capital ratio Liquid ratio/quick asset ratio Measures of financial stability	Page 263 -		
Equity ratio Measures of management effectiveness Inventory turnover Age of accounts receivable.	265 Page 268 -270		
Interpret information will include using the context to: Explain the analysis ratios Explain possible reasons for trends Explain possible consequences of a continued trend Provide links between analysis measures and other information Provide links between analysis measures Validly comment on an entity's financial performance, and/or financial position, and/or cash flows, using comparative figures (including industry averages) and results of analysis Compare the financial and/or non-financial information relating to the business, or to two sole proprietor businesses.	Page 272 – 275		



Points to Note:

You will be provided with a formulae sheet:

Analysis Measures Formulae

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Age of Accounts Receivable	Average Accounts Receivable Net Credit Sales × 1.125	
Current Ratio	Current Assets Current Liabilities	
Equity Ratio	Equity Total Assets	
Expense percentage	Group of Expenses Net Sales	
Gross Profit percentage	Gross Profit × 100 Net Sales	
Inventory Turnover	Cost of Goods Sold Average Inventory	
Liquid Ratio	Current Assets – (Inventory + Prepayments) Current Liabilities – Secured Bank Overdraft	
Mark-up percentage	Gross Profit Cost of Goods Sold × 100	
Net Profit percentage	Net Profit Net Sales × 100	
Return on Average Owner's Equity percentage	Net Profit Average Owner's Equity × 100	
Return on Total Assets percentage	Net Profit + Interest Average Total Assets	



MEASURES OF PROFITABILITY

	Mark-up %
Tells	The amount that is added to the cost of the goods to get
you	the selling price. A Mark-up % of 200% means that 200% is
\A/'!! '	added to the cost price of goods to get the selling price.
Will rise	Business sells proportionately more of higher mark-up items
if	Business has increased mark-up
	Business has a got goods cheaper from supplier, while It caping the calling price the same.
Will fall	keeping the selling price the same
if	 Mark-up has been reduced (to increase sales) Theft or loss of stock
••	Business sells proportionately more of lower mark-up items
	 Business sens proportionately more of lower mark-up items Business has paid more for goods from supplier, while keeping
	the selling price the same
То	Increase prices
improve	Find a cheaper supplier while keeping selling prices the same
	Sell goods with higher mark-up%
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	For Example: Find a cheaper supplier while keeping selling prices the
	<u>same</u> (Recommendation) <u>which will increase the amount received</u>
	per item increasing the Mark Up % (Justifying Recommendation)
Talla	Gross Profit %
Tells	The proportion of sales that is gross profit. A Gross profit percentage of 50 % manner that 50 cents in every dellar of
you	percentage of 50 % means that 50 cents in every dollar of sales is gross profit.
Will rise	Business sells proportionately more of higher mark-up items
if	Business has increased mark-up
	Business has a got goods cheaper from supplier, while
	keeping the selling price the same
Will fall	Mark-up is reduced
if	Theft of stock
	 Selling proportionately more lower mark-up items
	Business has paid more for goods from supplier, while keeping
	the selling price the same
То	Increase prices
improve	Increase mark-up %
	 Find a cheaper supplier while keeping selling prices the same
	For Everyples Increase mark up 0/ (December dation) (magning the
	For Example: <u>Increase mark-up</u> % (Recommendation) <u>(meaning the business will be getting more on each good sold increasing the gross</u>
	profit %) Justifying Recommendation)
	<u>prom 707</u> sadinging resolutionation)
	Expenses %
Tells	The proportion of sales \$ used up by an expense
you	category. A finance expense % of 15% means that for
1	every dollar of sales 15 cents is finance costs



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Will rise	You spend more on expenses (relative to sales). You may
if	have a bigger loan, so more interest, so a higher finance cost
	%.
Will fall	You spend less on an expense
if —	
То	Manage expenses better, or reduce expenses. Name the
improve	expense or expense group that needs better control.
	For Example: use a cheaper internet supplier – to reduce
	administration expense %.
	Avoid saying firing staff.
	For Formula, To increase the Advision of the Formula (Advisor Formula)
	For Example: <u>To improve the Administration Expense % the business</u>
	<u>could change to a cheaper internet supplier</u> (Recommendation with a
	specific example) which would decrease the administration expenses
	and decrease the Administration Expense % (Justifying
	Recommendation)
	Net Profit %
Tells	The proportion of each sales dollar that is net profit. Net
you	profit % of 8% means that for every dollar of sales, 8 cents
147:11	is net profit.
Will rise	Gross profit % increases
if	Sales increases relative to expenses
	Expense % falls (give specifics)
Will fall	Gross profit % decreases
if	 Sales decreases relative to expenses
	Expense % increases (give specifics)
То	Increase mark-up%
improve	Increase gross profit %
	Reduce expenses% (give specifics)
	For Example: A good answer: To improve the net profit % The Pizza
	Palace could stop delivering pizza (Recommendation), which would
	reduce their distribution costs and would improve their net profit %
	(Justifying Recommendation)
	Return on Equity %
Tells	 The % return on average capital invested. A figure of 17%
you	shows that the owner is getting 17 cents return on every
	dollar invested in the business.
	This should be compared to other forms of investment
	(such as bank deposit, other businesses) to see how you
	are performing in relation to them business is worthwhile.
Will rise	 If net profit rises (see reasons from net profit %)
if	
Will fall	If net profit falls (see reasons from net profit %)
if	
То	Increase net profit (give a specific reason)
improve	For example, The Direct Delegation (1) in the City of City
	For example: The Pizza Palace could increase their price of Pizza



	while keeping the costs the same. (Recommendation)This would
	mean they get more per item, increasing the net profit % and
	improving the Return on Equity %. (Justifying Recommendation)
	Return on Assets %
Tells	This measures how productive the assets used are at
you	earning a profit for the business (shows the return on
	total assets).
	A figure of 12% shows that the assets are returning 12
	cents return on every dollar invested in the business.
	This should be compared to other forms of investment
	(such as bank deposit, other businesses) and you want it
	as high as possible
Will rise	If net profit rises (see reasons from net profit %)
if	if het profit fises (see reasons from het profit 70)
Will fall	If net profit falls (see reasons from net profit %)
if	
To	- Improve Not Profit by maintaining better central ever evenence
improve	Improve Net Profit by maintaining better control over expenses
improve	especially repairs & maintenance.
	Sell idle (unused) or obsolete (old) non-current assets.
	For example: The Pizza Palace could maintain their assets better so
	there were less repair costs. (Recommendation)This would mean the
	expenses would decrease, increasing the net profit and improving
	the Return on Assets %. (Justifying Recommendation)

MEASURES OF LIQUIDITY

The	Working Capital dollars of current assets available to meet current liabilities (Current Assets – Current Liabilities) Current Ratio
Tells you	 It shows the ability of a firm to meet its current debts as they fall due in the next accounting period A ratio of greater than 1:1 indicates that the business should be able to meet their debts as they fall due in the next accounting period. A ratio of less than 1:1 indicates that a business may not be able to meet their debts as they fall due in the next accounting period. A ratio of 2:1 shows that for every \$1 of current liabilities the business has \$2 of current assets. Ideally the Current Ratio should be higher than 1:1. However if it is to high it can be an issue
	 Problems of a high current ratio: High accounts receivable – problem of bad debts. Too much inventory – may become obsolete (expired, out of fashion etc.). Too much cash-better invested in term deposit to earn



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14/11/6 11 16	interest.		
Will fall if	Too much drawings		
	 Purchase of PPE assets for cash 		
	Repaying mortgage with cash		
To improve	 Owner can invest more cash into business 		
	 Sell more goods, services for <u>profit</u> 		
	 Sell surplus property, plant and equipment for cash 		
	For Example: The owner could invest cash into the business		
	(Recommendation) which would increase the current asset bank		
	(while current liabilities stay the same), and improve the current		
	Ratio (Justifying Recommendation).		
	Liquid Ratio		
Tells you Will fall if	 It shows the ability of a firm to meet its debts as they fall due in the next 4 – 6 weeks A ratio of greater than 1:1 indicates that the business should be able to meet their debts as they fall due in the next 1-2 months. A ratio of less than 1:1 indicates that a business may not be able to meet their debts as they fall due in the next 1-2 months. A ratio of 2:1 shows that for every \$1 of liquid liabilities the business has \$2 of liquid assets. 		
will fall if	Too much drawings		
	Purchase of Non-Current asset for cash		
	Purchase of inventory on credit		
To improve	Owner can invest more cash into business		
	 Sell more goods, services for profit 		
	 Sell surplus property, plant and equipment for cash 		
	For Example: The owner could invest cash into the business (Recommendation) which would increase the liquid asset bank (while liquid liabilities stay the same), and improve the Liquid Ratio (Justifying Recommendation).		



Management Effectiveness

	Inventory Turneyer
Telle yeu	Inventory Turnover
Tells you	Tells us how long <u>on average inventory</u> is in the store before it is sold and how many times the business sells its entire inventory <u>on average</u> per year. e.g. 12 times per year means that the business is selling on average its entire stock 12 times per year.
	 Problems with slow turn over: Money better invested elsewhere. Higher insurance premiums Store and warehousing cost Greater risk of deterioration/obsolescence (out of date) Stock items stolen.
Will take longer (get worse if)	 Ordering too much stock at once The re-order point is too high
To improve	 Review purchasing procedure so only purchasing enough to meet customer demand. Make the re-order point less to prevent stock piling up Have clearance sale to sell off obsolete stock. For Example: The (business name) could make the re-order point less (Recommendation) so there would be less inventory
	<u>building up and would therefore be sold quicker, increasing the</u> <u>average turnover of inventory</u> (Justifying Recommendation).
	Age of Accounts Receivable
Tells you	Indicates how many days our customers take on average to pay their debts. Should be an average 35-40 days or better. A calculation of 36 days means that the business is collecting its accounts receivable on an average every 36 days. Note: ALWAYS round to the next full day. (general rounding rule does not apply)
Consequence of longer age of accounts receivable	
To improve	 Write off long overdue accounts as Bad debts. Perform credit checks. Encourage payment of accounts by offering discounts or charge interest for overdue accounts. Review credit collection policies. i.e. send regular statements or phoning accounts receivable.



For Example: Charge interest on overdue accounts (Recommendation) -This should encourage the <u>debtors to pay their accounts more quickly</u>, which <u>reduces the amount of time they have money outstanding to the firm and improves the age of Accounts Receivable.</u>

Financial Stability

EQUITY RATIO		
Tells you	This tells us how much of the business assets have been financed by the owner. If the ratio is too high, this means the business is not making use of external funds (borrowing) to expand the business. A ratio of 0.6:1 means for every \$1 of assets the owner has financed 60c.	
Consequence of longer age of accounts receivable	The ratio needs to be greater than 0.5:1. If the ratio is less than 0.5:1, the creditors may impose restrictions on lending.	
To improve	 If the ratio is low, the owner must invest more capital. If the ratio is high, borrow more long term funds. For Example: The owner invests a vehicle into the business (Recommendation) which increase the equity relative to assets, improving the Equity Ratio (Justifying Recommendation). 	

Please Note:

Interpret – Making links between related analysis measures and other financial information

Profitability

- An increase in Mark up Percentage will increase Gross Profit Percentage and vice versa.
- Mark Up Percentage is linked to both sales and inventory turnover. A decrease in mark
 up should lead to an increase in sales and an increase in inventory turnover as the
 sales volume has improved.
- An increase in Gross Profit Percentage should lead to an increase in Net Profit Percentage. If not, the firm has less control over expenses.
- A decrease in Expenses Percentage (better control over expenses) should lead to an increase in Net Profit Percentage.
- A decrease in Net Profit Percentage is not necessarily detrimental for the firm if the net profit figure in the Income Statement has increased. A higher net profit figure means that the firm is more profitable even though it may have a lower Net Profit Percentage.
- An increase in net profit figure will usually lead to an increase in the return on owner's equity.
- If the capital figure in the Balance Sheet has increased, and Net Profit has remained constant the return on owner's equity would decrease.



Liquidity / Management Effectiveness

Current Ratio	Liquid Ratio	Causes	Recommendation
High	High	Too much cash	Better invested in interest bearing accounts
		Age of Accounts Receivable slow	Write off bad debts, and check credit collection policies
High	Low	Decrease in Inventory turnover with the possibility of obsolete stock or overstocking	Clearance sale of obsolete stock Check procedures when purchasing stock
			write off any obsolete stock
Low	High	a large secured bank overdraft	Check assets have been financed by non current liabilities (long term sources)
Low	Low	Increase in unsecured bank overdraft	Owner invests cash or reduces amount of drawings
		Assets financed from short term rather than long term sources	Check assets have been financed by non current liabilities (long term sources)

Liquidity / Financial Stability

- If the Equity ratio is low and the liquid ratio is low, the owner should invest more capital
- If the Equity ratio is high and the liquid ratio is low, the firm should borrow from long term sources e.g. increase mortgage

Assessment Criteria Word	Possible meaning/requirement of the word(s)
Analyse	Calculate analysis measures
Interpret	 Explain the analysis ratios, possible reasons for trends, possible consequences of a continued trend
	 Provide links between analysis measures and other information; between related analysis measures
	 Validly comment on an entity's financial performance, and/or financial position, and/or cash flows, using comparative figures (including industry averages) and results of analysis
	 Compare the financial and/or non-financial information relating to the business, or to two sole proprietor businesses.
Recommendation	A Strategy that will improve an identified weakness
Justified recommendation	 An explanation of how the recommendation(s) will improve the identified weakness

