

FINANCIAL ANALYSIS WORKBOOK

NOTES

KEY TERMS

Terms	Explanation
Assests	Cash or any resource which you use in business to generate cash
Balance sheet	A financial statement at a particular point in time showing total assets, total liabilities, and capital
Capital	Your own investment in business
Cash flow statement	A financial statement showing cash inflows, cash outflows and cash balance for a particular period
Credit	Increase in liabilities or increase in capital or increase in income or decrease in expenses or decrease in assets
Debit	Increase in assets or increase in expenses or decrease in liabilities, decrease in income or decrease in capital
Expense	Costs which you incur on regular basis like rent, salaries or internet bills
Income	Earnings from sales
Income statement	A financial statement for a particular period showing sales, cost of sales, gross profit and net profit
Liabilities	Payable by business to vendors, suppliers, financial institutions or related stakeholder
Loss	When expenses are more than income during the period
Profit	When income is more than expenses during the period
Purchase	When you buy some item from your vendor
Return	When you return the goods purchased or service obtained
Retained earnings, accumulated profits or retained profits	Profits which are 'retained' in business and not 'withdrawn' during the period These are part of owner's equity which is equal to capital plus retained profits
Sale	When income is more than expenses during the period
Sales return	When a customer returns you the product or asks for refund against service

KEY EQUATIONS

Terms	Explanation
Balance sheet equation	Total Assets = Total Liabilities + Total Capital Total Capital = Total Assets - Total Liabilities
Income statement equations	Net sales = Gross income - sales returns minus sales discounts Gross profit = Net sales - cost of sales Earnings before interest tax depreciation and amortisation (EBITDA) = Gross profit - operating expenses Earnings before interest and tax (EBIT) = EBITDA - depreciation and amortisation Earnings before tax (EBT) = EBIT - interest Net profit = EBT - taxes
Net cash balance	Net cash balance = Total cash inflows - total cash outflows

MODULE 01 FINANCIAL ANALYSIS BASIC CONCEPTS

Lesson 9: Depreciation

Instructions: Calculate the annual depreciation of at least three assets from your business.

Assests	Costs	Residual value	Useful life	Annual depreciation

Lesson 10: Amortisation

Instructions: Calculate the annual amortisation of at least one asset from your business.

Assests	Costs Residu		Useful	Annual
	value		life	amortization

Lesson 11: Short term and long-term assets and labilities

Instructions: Identify three current assets, current liabilities, non-current assets, and non -current liabilities from your business.

	Current assests	Current liabilities	Non-current assests	Non-current liabilities
1				
2				
3				

MODULE 03 PREPARING YOUR FINANCIAL STATEMENTS

Lesson 1: Income statements: Key considerations

Mr. Rehman, owner of Gilgit bakery, has approached you. He informs you that he has invested Rs. 900,000 from his own resources for furniture and fixture, machines, and other items. He has given Rs.100,000 cash to the cashier of the bakery in addition to the investment in furniture, fixture, and machinery. (Total investment made by Mr. Rehman is Rs. 1,000,000)

During first month of operations, the bakery sells cakes worth Rs. 25,000, biscuits worth 35,000, breads worth Rs. 65,000 and all other items worth Rs. 45,000. The owner has obtained loan of Rs. 1,000,000 at 10% interest per annum. Depreciation on all fixed assets is charged at 10% per year.

The cashier has paid Rs. 95,000 for purchase of wheat, flour, sugar, oil and all other material used in baking of the items sold to the customers. All the items have been fully consumed in the preparation of bread and biscuits during the month.

At the end of the month, these bills are paid: rent Rs. 15,000, electricity Rs. 3,000, telephone Rs. 2,500 and salaries of 4 officers Rs. 32,000. There is no stock of any item remaining and cashier has asked Mr. Rehman to provide him funds for purchases. Monthly earnings are taxed at 5%.

Please prepare an income statement of Gilgit Bakery for one month.

Description	Rupees
Income	
Less: Cost of sales	
Gross profit	
Operating expenses	
Earnings before interest tax depreciation and amortisation	
Depreciation and amortisation	
Earnings before interest and tax	
Interest	
Earnings before tax	
Тах	
Net profit / (loss)	

Prepare an income statement for your business for one month.

Description	Amount
Income	
Less: Cost of sales	
Gross profit	
Operating expenses	
Earnings before interest tax depreciation and amortisation	
Depreciation and amortisation	
Earnings before interest and tax	
Interest	
Earnings before tax	
Тах	
Net profit / (loss)	

Lesson 2: Cash flow statement: Key considerations

From the below items, please

- i. Classify each as operational, financing or investing activity
- ii. Calculate net cash flow from operational, financing and investing activities

iii. Calculate cash balance at the end of the period – the opening cash balance is Rs. 300,000

	Receipt	Payment	Nature of activity
Cash received from customers	850,000		
Cash paid to suppliers		400,000	
Cash paid to employees		300,000	
Cash paid for expenses		425,000	
Loan received from bank	1,000,000		
Cash paid for loan instalment		520,000	
Cash paid as interest to bank		45,000	
Fixed asset purchased		25,000	
Fixed asset sold	15,000		

	Cash inflow	Cash outflow	Cash balance from each activity
Operating activities			
Financing activities			
Investing activities			
Net cash flow			

Closing balance

	Rupees
Net cash flow	
Add: Opening balance at the start of the period	
Equals closing balance at the end of the period	

Lesson 3: Balance sheet: Key considerations

Prepare the balance sheet as per the format provided.

Items	Rupees	ltems F	Rupees
Cash	900,000	Loan payable in 12 months	500,000
Accounts receivable	2,450,000	Loan payable after 2 years	1,000,000
Furniture	100,000	Payable to a friend after 5 years	4,000,000
Vehicles	1,650,000	Payable to suppliers	350,000
Office equipment	250,000	Payable for interest in 3 months	150,000
Inventory 1,400,000		Share capital	500,000
		Profit for the period	25,000
		Retained profits	45,000

Total liabilities and equity	Receipt	Payment	Nature of activity
Non-current liabilities		Non-current assets	
Long term loan payable		Furniture	
Other long term payables		Vehicles	
Total		Office equipment	
		Total current assets	

Current liabilities	Current assets	
Creditors	Cash	
Other payables	Account receivable	
Total current liabilities	Inventory	
Total liabilities	Total current assets	

Capital		
Share capital		
Profit for the period		
Retained profits		
Total equity		
Total liabilities and equity	Total assets	

Lesson 4: Forecasting depreciation and amortisation

You are being provided with the income statement and the balance sheet of Blue Star Water Hunza for the period 2017 to 2019. Prepare the forecast for 2020 based on the assumptions provided:

Amounts in Rupees in '000

Description	2017	2018	2019	2020
Revenue	102,007	118,086	131,345	
COGS	39,023	48,004	49,123	
GP	62,984	70,082	82,222	
Salaries	26,427	22,658	23,872	
Rent	10,963	10,125	10,087	
EBIDTA	25,594	37,299	48,263	
Depreciation	19,500	18,150	17,205	
EBIT	6,094	19,149	31,058	
Interest	2,500	2,500	1,500	
Net profit	3,594	16,649	29,558	

Assumptions:

1. Sales will increase by 8.37% in 2020 over 2019.

2. Gross profit margin is calculated as Gross Profit divided by Sales multiply by 100. It is expected that the gross profit margin in 2020 will be 62.5% of sales of 2020.

3. It is expected that during 2020, certain staff will be laid off due to which salaries will decrease by 3.9% in 2020 over 2019.

4. Rent is expected to increase by 9.25% in 2020 over 2019.

5. Depreciation expense is expected to decrease by Rs. 661,000 in 2020.

6. Interest expense will be Rs. 900,000 in 2020.

FINANCIAL STATEMENTS ANALYSIS

Lesson 2: Expenses and other financial statement items

Instructions: Prepare a horizontal analysis for the company:

Instructions: Prepare a horizontal analysis for the company:		Year on Yea	r growth		
	2019	2020	Rs. In '000	%	
Revenue	102,007	118,086			
Cost of goods sold	39,023	48,004			
Gross profit	62,984	70,082			
Expenses					
Salaries and benefits	26,427	22,658			
Rent and overheads	10,963	10,125			
Depreciation and amortisation	19,500	18,150			
Interest	2,500	2,500			
Total expenses	59,390	53,433			
Earnings before taxes	3,594	16,649			
Taxes expense and paid	1,120	4,858			
Net earnings	2,474	11,791			

Lesson 4: Applying vertical analysis to financial statements

Instructions: Analyse the below income statement vertically

	2019	%	
Revenue	102,007		
Cost of goods sold	39,023		
Gross profit	62,984		
Expenses			
Salaries and benefits	26,427		
Rent and overheads	10,963		
Depreciation and amortisation	19,500		
Interest	2,500		
Total expenses	59,390		
Earnings before taxes	3,594		
Taxes expense and paid	1,120		
Net earnings	2,474		

ANSWER KEY

MODULE 03

Lesson 1

Description	Amount
Income	170,000
Less: Cost of sales	95,000
Gross profit	75,000
Operating expenses	52,500
Earnings before interest tax depreciation and amortisation	22,500
Depreciation and amortisation	7,500
Earnings before interest and tax	15,000
Interest	8,333
Earnings before tax	6,667
Тах	333
Net profit / (loss)	6,334

	Receipt	Payment	Nature of activity
Cash received from customers	850,000		Operational
Cash paid to suppliers		400,000	Operational
Cash paid to employees		300,000	Operational
Cash paid for expenses		425,000	Operational
Loan received from bank	1,000,000		Financing
Cash paid for loan instalment		520,000	Financing
Cash paid as interest to bank		45,000	Financing
Fixed asset purchased		25,000	Investing
Fixed asset sold	15,000		Investing

	Cash inflow	Cash outflow	Cash balance from each activity
Operating activities	850,000	1,125,000	275,000
Financing activities	1,000,000	565,000	435,000
Investing activities	15,000	25,000	10,000
Net cash flow			150,000

	Rupees
Net cash flow	150,000
Add: Opening balance at the start of the period	300,000
Equals closing balance at the end of the period	450,000

Total liabilities and equity	Receipt	Payment	Nature of activity
Non-current liabilities		Non-current assets	
Long term loan payable	1,000,000	Furniture	100,000
Other long term payables	4,000,000	Vehicles	1,650,000
Total	5,000,000	Office equipment	250,000
		Total current assets	2,000,000

Current liabilities Current assets			
Creditors	350,000	Cash	900,000
Other payables	650,000	Account receivable	2,450,000
Total current liabilities	1,000,000	Inventory	1,400,000
Total liabilities	6,000,000	Total current assets	4,750,000

Capital			
Share capital	500,000		
Profit for the period	25,000		
Retained profits	45,000		
Total equity	570,000		
Total liabilities and equity	6,570,000	Total assets	6,750,000

Lesson 4

Amounts in Rupees in '000

Description	2017	2018	2019	2020
Revenue	102,007	118,086	131,345	142,338
COGS	39,023	48,004	49,123	53,377
GP	62,984	70,082	82,222	88,961
Salaries	26,427	22,658	23,872	22,940
Rent	10,963	10,125	10,087	11,020
EBIDTA	25,594	37,299	48,263	55,000
Depreciation	19,500	18,150	17,205	16,544
EBIT	6,094	19,149	31,058	38,456
Interest	2,500	2,500	1,500	900
Net profit	3,594	16,649	29,558	37,556

MODULE 05

	Year on Year growth			
	2019	2020	Rs. In '000	%
Revenue	102,007	118,086	16,079	16
Cost of goods sold	39,023	48,004	8,981	23
Gross profit	62,984	70,082	7,098	11
Expenses				
Salaries and benefits	26,427	22,658	3,769	14
Rent and overheads	10,963	10,125	838	8
Depreciation and amortisation	19,500	18,150	1,350	7
Interest	2,500	2,500	-	-
Total expenses	59,390	53,433	5,957	10
Earnings before taxes	3,594	16,649	13,055	363
Taxes expense and paid	1,120	4,858	3,738	334
Net earnings	2,474	11,791	9,317	377

	2019	%
Revenue	102,007	100%
Cost of goods sold	39,023	38%
Gross profit	62,984	62 %
Expenses		
Salaries and benefits	26,427	26%
Rent and overheads	10,963	11%
Depreciation and amortisation	19,500	19%
Interest	2,500	2%
Total expenses	59,390	58 %
Earnings before taxes	3,594	4%
Taxes expense and paid	1,120	1%
Net earnings	2,474	3%



FINANCIAL Analysis Workbook