Managerial Economics and Financial Accounting problems and solutions for Unit II, Unit IV, and Unit V

Formulas

1. Contribution

$$\begin{aligned} & \text{Contribution} = \text{Sales -Variable cost} \\ & \text{OR} \\ & \text{Contribution} = \text{Sales} \times \text{P/V Ratio} \\ & \text{OR} \end{aligned}$$

Contribution per Unit (in units) = Selling Price per Unit – Variable Cost per Unit

2. P/V Ratio (Profit/Volume Ratio)

P/V Ratio (%) = (Change in Profit / Change in Sales) \times 100

3. Fixed Costs

Fixed Costs = Contribution - Profit
OR
Fixed Costs = (Sales
$$\times$$
 P/V Ratio) - Profit

4. Break-Even Sales

Break-Even Sales = Fixed Costs / P/V Ratio

4. Break-Even Units

Break-Even Units=Fixed Costs/ Contribution per Unit

5. Profit at a Given Sales Level

Profit =
$$(Sales \times P/V Ratio) - Fixed Costs$$

6. Sales at a Given profit

Required Sales (Units) = (Fixed Cost + Target Profit) / P/V Ratio

7. Margin of Safety (₹)

8. Margin of Safety (%)

MOS (%) = [(Actual Sales – Break-Even Sales) / Actual Sales]
$$\times$$
 100 **OR**

$$MOS (\%) = [MOS (₹) / Actual Sales] \times 100$$

Q1:

XYZ Ltd. sells a product with the following cost structure:

Selling Price per Unit = ₹50

Variable Cost per Unit = ₹30

Fixed Costs = ₹20,000

Find the following:

- P/V Ratio
- Break-Even Sales (in ₹ & units)
- Sales required to earn a profit of ₹5,000
- New Break-Even Sales if Selling Price is reduced by 10%

Sol:

1. P/V Ratio (Profit/Volume Ratio)

Formula:

P/V Ratio = ((Selling Price - Variable Cost) / Selling Price) \times 100

$$= ((50 - 30) / 50) \times 100 = 40\%$$

P/V Ratio = 40%

2. Break-Even Sales

(a) In ₹ (Sales Value):

Break-Even Sales = Fixed Costs / P/V Ratio = 20,000 / 0.40 = ₹50,000

(b) In Units:

Break-Even Units = Fixed Costs / (Selling Price - Variable Cost) = 20,000 / 20 = 1,000 units

Break-Even Sales = ₹50,000 or 1,000 units

3. Sales Required to Earn a Profit of ₹5,000

Required Sales = (Fixed Cost + Desired Profit) / P/V Ratio

$$= (20,000 + 5,000) / 0.40 = ₹62,500$$

Sales required to earn ₹5,000 profit = ₹62,500

4. New Break-Even Sales if Selling Price is reduced by 10%

New Selling Price = ₹50 - 10% of ₹50 = ₹45

New Contribution per Unit = New Selling Price - Variable Cost = ₹45 - ₹30 = ₹15

New P/V Ratio = = ((New Selling Price - Variable Cost) / Selling Price) \times 100

$$= (15/45) \times 100 = 33.33\%$$

Break-Even Sales (₹) = Fixed Costs / P/V Ratio = $20,000 / 0.3333 \approx ₹60,000$

Break-Even Sales (Units) = Fixed Costs / (Selling Price - Variable Cost)

$$= 20,000 / 15 = 1,334$$
 units

Pepsi Company produces a single product, and the following cost data is available:

Selling Price per Unit = ₹40

Variable Cost per Unit = ₹24

Fixed Cost per Annum = ₹16,000

Calculate the following:

Profit Volume (P/V) Ratio

Break-Even Sales (both in units & sales revenue)

Sales required to earn a target profit of ₹2,000

Profit when total sales revenue is ₹60,000

New Break-Even Sales (units & revenue), if the selling price is reduced by 10%

Solution:

Given Data:

Selling Price per Unit = ₹40

Variable Cost per Unit = ₹24

Fixed Cost per Annum = ₹16,000

Calculations:

1. Profit Volume (P/V) Ratio:

P/V Ratio = (Contribution per Unit / Selling Price per Unit) \times 100

Contribution per Unit = Selling Price unit - Variable cost per unit

$$= ((40 - 24) / 40) \times 100 = 40.00\%$$

2. Break-Even Sales:

Break-Even Sales (Units) = Fixed Cost / Contribution per Unit

$$= 16000 / 16 = 1000$$
 units

Break-Even Sales (Revenue) = Break-Even units X Selling price Per Unit

$$= 1000 \times 40 = 340000.00$$

3. Sales Required to Earn Target Profit of ₹2,000:

4. Profit when Sales Revenue is ₹60,000:

Formula: Desired Profit = Sales \times P/V Ratio - Fixed Cost

Profit = ₹60000 × 0.40 - ₹16000 = ₹8000.00

5. New Break-Even Sales (After 10% Reduction in Selling Price):

New Selling Price = ₹40 - 10% of ₹40 = ₹36.00

New Contribution per Unit = ₹36.00 - ₹24 = ₹12.00

New Break-Even Sales (Units) = 16000 / ₹12.00 = 1333 units

New Break-Even Sales (Revenue) = $1333 \times ₹36.00 = ₹48000.00$

Q3:

A company provides the following financial data:

Year	Sales (₹)	Profit (₹)
2022	2,00,000	40,000
2023	2,80,000	60,000

Calculate the following:

- a) P/V Ratio
- b) Fixed Costs
- c) Break-Even Sales
- d) Expected Profit if Sales are ₹1,00,00
- e) Margin of safety

Given Financial Data:

Year	Sales (₹)	Profit (₹)
2022	2,00,000	40,000
2023	2,80,000	60,000

a) P/V Ratio:

P/V Ratio = (Change in Profit / Change in Sales) \times 100

$$= (60,000 - 40,000) / (2,80,000 - 2,00,000) \times 100$$

$$= (20,000 / 80,000) \times 100 = 25\%$$

b) Fixed Costs:

Contribution = Sales × P/V Ratio = $2,00,000 \times 25\%$ = ₹50,000

Fixed Costs = Contribution - Profit = 50,000 - 40,000 = ₹10,000

c) Break-Even Sales:

Break-Even Sales = Fixed Costs / P/V Ratio = 10,000 / 0.25 = ₹40,000

d) Expected Profit if Sales are ₹1,00,000:

Profit = (Sales \times P/V Ratio) - Fixed Costs

$$=(1,00,000 \times 25\%) - 10,000 = 25,000 - 10,000 = ₹15,000$$

e) Margin of Safety:

formula: Actual sales - B.E.P Sales

Year	Sales (₹)	Profit (₹)	Break-Even	MOS (₹)	MOS (%)
			Sales (₹)	Actual sales – B.E.P Sales	$\left(\frac{\text{Actual Sales} - \text{Break-Even Sales}}{\text{Actual Sales}}\right) \times 100$
2022	2,00,000	40,000	40,000	1,60,000	80%
2023	2,80,000	60,000	40,000	2,40,000	85.71%

Q4. From the given data, calculate the following:

Year	Sales (₹)	Profit (₹)
2023	1,80,000	30,000
2024	2,60,000	50,000

Calculate the following:

- a) P/V Ratio
- b) Fixed Costs
- c) Break-Even Sales

Expected Profit if Sales are ₹1,00,00

Given Data:

Year	Sales (₹)	Profit (₹)
2023	1,80,000	30,000
2024	2,60,000	50,000

Calculations:

a) P/V Ratio

P/V Ratio = (Change in Profit) / (Change in Sales)

$$= (50,000 - 30,000) / (2,60,000 - 1,80,000) = 0.25 \text{ or } 25\%$$

b) Fixed Costs

Using the formula: Profit = Sales \times P/V Ratio – Fixed Costs

$$30,000 = 1,80,000 \times 0.25 - Fixed Costs$$

Fixed Costs = 45,000 - 30,000 = ₹15,000

c) Break-Even Sales

Break-Even Sales = Fixed Costs / P/V Ratio

$$= 15,000 / 0.25 = ₹60,000$$

d) Expected Profit if Sales are ₹1,00,000

Profit = Sales \times P/V Ratio – Fixed Costs

$$= 1,00,000 \times 0.25 - 15,000 = ₹10,000$$

Summary:

Item	Value
P/V Ratio	25%
Fixed Costs	₹15,000
Break-Even Sales	₹60,000
Profit at ₹1,00,000 Sales	₹10,000

Q5. A company is considering two investment projects: Project A and Project B. The initial investment required for each project is ₹50,000. The expected cash inflows (CFAT) from both projects are as follows:

Year	Project A (₹)	Project B (₹)
1	20,000	10,000
2	15,000	15,000
3	10,000	20,000
4	5,000	25,000

Calculate the Payback Period for both Project A and Project B. And Which project should the company prefer based on the Payback Period method?

Payback Period Analysis for Project A and Project B

Project A – Payback Period Calculation

Year	Cash Inflow (₹)	Cumulative Cash Inflow (₹)
1	20,000	20,000
2	15,000	35,000
3	10,000	45,000
4	5,000	50,000

Payback Period for Project A = 4 years

Project B – Payback Period Calculation

Year	Cash Inflow (₹)	Cumulative Cash Inflow (₹)
1	10,000	10,000
2	15,000	25,000
3	20,000	45,000
4	25,000	70,000

In Year 3, cumulative inflow = ₹45,000

Still needed: ₹50,000 - ₹45,000 = ₹5,000

Year 4 inflow = ₹25,000, so

Payback Period=Base Year+ Uncovered Amount

Next Year Cash Flow (CFAT)

payback occurs at: 3 + (5,000 / 25,000) = 3.2 years

Payback Period for Project B = 3.2 years

Conclusion

Based on the Payback Period method:

Project A: 4 years

Project B: 3.2 years

The company should prefer **Project B**, as it recovers the investment faster.

Q6

A company is evaluating a project that requires an initial investment of ₹1,50,000. The expected cash flows after tax (CFAT) for the next 5 years are as follows:

Year CFAT (₹)

- 1 40,000
- 2 50,000
- 3 45,000
- 4 35,000
- 5 30,000

The discount rate (Cost of Capital) is 10%. Calculate the Net Present Value (NPV) of the project. $DF = \frac{1}{(1+k)^t}$

(Hint: Formula for discount factor

NPV Calculation Table at 10% Discount Rate

Year	CFAT (₹)	Discount Factor @10%	Present Value (₹)
1	40,000	0.909	40,000 × 0.909 = 36,360
2	50,000	0.826	$50,000 \times 0.826 = 41,300$
3	45,000	0.751	45,000 × 0.751 = 33,795
4	35,000	0.683	$35,000 \times 0.683 = $ 23,905
5	30,000	0.621	30,000 × 0.621 = 18,630
	Total PV of Cash Flows		₹1,53,990
	Initial Investment		₹1,50,000
	Net Present Value (NPV)		₹3,990

Since NPV = ₹3,990 (positive), the project should be accepted.

Q6

XYZ Ltd. is evaluating a project requiring an initial investment of ₹5,00,000. The expected Cash Flows After Tax (CFAT) over 5 years are as follows:

Year	CFAT (₹)
1	1,20,000
2	1,30,000
3	1,50,000
4	1,40,000
5	1,60,000

The discount rate is 10% and required to calculate Payback Period, Net Present Value and Profitability Index

1) Payback Period

Payback Period = Time taken to recover the initial investment from CFATs.

We compute the cumulative cash flows:

Year	CFAT (₹)	Cumulative CFAT (₹)
1	1,20,000	1,20,000
2	1,30,000	2,50,000
3	1,50,000	4,00,000
4	1,40,000	5,40,000
5	1,60,000	7,00,000

By end of Year $3 \rightarrow \text{₹}4,00,000$ recovered. Remaining = ₹5,00,000 - ₹4,00,000 = ₹1,00,000

Payback Period=Base Year+ Uncovered Amount

Next Year Cash Flow (CFAT)

= 3 + 100000/140000

= 3 + 0.71

2) Net present value

Year	CFAT (₹)	Discount Factor @10%	Present Value (₹)
1	1,20,000	0.909	$1,20,000 \times 0.909 = 1,09,080$
2	1,30,000	0.826	$1,30,000 \times 0.826 = 1,07,380$
3	1,50,000	0.751	$1,50,000 \times 0.751 = 1,12,650$
4	1,40,000	0.683	$1,40,000 \times 0.683 = 95,620$
5	1,60,000	0.621	1,60,000 × 0.621 = 99,360
	Total PV o	f Cash Flows	₹5,24,090
Initial Investment		nvestment	₹ 5,00,000
	Net Presen	t Value (NPV)	₹24,090

3.Profitability Index (PI)

PI=Total Present Value of Cash Flow / Initial Investment

=5,24,090/5,00,000

=1.048

4.Internal rate of Return (IRR)

Year	CFAT (₹)	Discount Factor @10%	PV @10% (₹)	Discount Factor @15%	PV @15% (₹)
1	1,20,000	0.909	1,20,000 × 0.909 = 1,09,080	0.870	$1,20,000 \times 0.870 = 1,04,400$
2	1,30,000	0.826	$1,30,000 \times 0.826 = 1,07,380$	0.756	$1,30,000 \times 0.756 = 98,280$
3	1,50,000	0.751	$1,50,000 \times 0.751 = 1,12,650$	0.658	$1,50,000 \times 0.658 = $ 98,700
4	1,40,000	0.683	1,40,000 × 0.683 = 95,620	0.572	$1,40,000 \times 0.572 = 80,080$
5	1,60,000	0.621	1,60,000 × 0.621 = 99,360	0.497	1,60,000 × 0.497 = 79,520
	Total PV	of CFs	₹5,24,090		₹4,60,980

Initial Investment	₹5,00,000	₹5,00,000
Net Present Value	₹24,090	-₹39,020

$$IRR = Lower \ Rate + \left(\frac{NPV \ at \ Lower \ Rate}{NPV \ at \ Lower \ Rate - NPV \ at \ Higher \ Rate}\right) \times (Higher \ Rate - Lower \ Rate)$$

- Lower Rate = 10%
- Higher Rate = 15%
- NPV at Lower Rate (10%) = ₹24,090
- NPV at Higher Rate (15%) = -₹39,020

IRR =
$$10\% + ((24,090) / (24,090 - (-39,020))) \times (15\% - 10\%)$$

 $IRR = 10\% + (24,090 / 63,110) \times 5\%$

 $IRR = 10\% + (0.3816) \times 5\%$

IRR = 10% + 1.91%

IRR = 11.91%

Q7. ABC Ltd. made the following transactions during the month of March 2024. Prepare the journal entries for each transaction:

Date	Transaction Details	Amount (₹)
Mar-01	Business started with cash	5,00,000
Mar-03	Purchased goods for cash	1,20,000
Mar-05	Cash received from sales	80,000
Mar-08	Purchased furniture for office use	30,000
Mar-12	Paid rent for the office	10,000
Mar-15	Paid salary to employees	25,000
Mar-18	Goods sold on credit to XYZ Ltd.	60,000
Mar-20	Received cash from XYZ Ltd.	40,000
Mar-22	Paid electricity bill	5,000

Sol:

Prepare journal entries in the books of ABC Ltd in the month of March 2024

Date	Particulars	L.F.	Debit (₹)	Credit (₹)
Mar-01	Cash A/c Dr.		5,00,000	
	To Capital A/c			5,00,000
	(Being business started with cash)			
Mar-03	Purchases A/c Dr.		1,20,000	
	To Cash A/c			1,20,000
	(Being goods purchased for cash)			
Mar-05	Cash A/c Dr.		80,000	

	To Sales A/c	80,000
	(Being goods sold for cash)	
Mar-08	Furniture A/c Dr.	30,000
	To Cash A/c	30,000
	(Being furniture purchased)	
Mar-12	Rent A/c Dr.	10,000
	To Cash A/c	10,000
	(Being office rent paid)	
Mar-15	Salaries A/c Dr.	25,000
	To Cash A/c	25,000
	(Being salary paid to employees)	
Mar-18	XYZ Ltd. A/c Dr.	60,000
	To Sales A/c	60,000
	(Being goods sold on credit)	
Mar-20	Cash A/c Dr.	40,000
	To XYZ Ltd. A/c	40,000
	(Being part payment received)	
Mar-22	Electricity Expenses A/c Dr.	5,000
	To Cash A/c	5,000
	(Being electricity bill paid)	

Q8. XYZ Enterprises had the following transactions during the month of April 2024. Prepare the journal entries for each transaction:

Date	Transaction Details	Amount (₹)
April 1	Business started with cash	4,00,000
April 4	Purchased goods for cash	1,50,000
April 7	Sold goods for cash	90,000
April 10	Purchased machinery for business	50,000
April 14	Paid office rent	12,000
April 18	Paid wages to workers	20,000
April 22	Sold goods on credit to ABC Ltd.	70,000
April 25	Received cash from ABC Ltd.	50,000
April 28	Paid telephone bill	3,000

Sol:

Prepare journal entries in the books of XYZ Enterprises in the month of April 2024

Date	Particulars	L.F	Debit (₹)	Credit (₹)
Apr 1, 2024	Cash A/c	L. ,	4,00,000	3.33.t (t)
Αρι 1, 2024	To Capital A/c		4,00,000	4,00,000
	(Business started with cash)			
Apr 4, 2024	Purchases A/c		1,50,000	
	To Cash A/c			1,50,000
	(Purchased goods for cash)			
Apr 7, 2024	Cash A/c		90,000	
	To Sales A/c			90,000

Apr 10, 2024	(Sold goods for cash) Machinery A/c	50,000	
	To Cash A/c		50,000
	(Purchased machinery)		
Apr 14, 2024	Rent Expense A/c	12,000	
	To Cash A/c		12,000
	(Paid office rent)		
Apr 18, 2024	Wages Expense A/c	20,000	
	To Cash A/c		20,000
	(Paid wages to workers)		
Apr 22, 2024	Accounts Receivable—ABC Ltd. A/c	70,000	
	To Sales A/c		70,000
	(Sold goods on credit)		
Apr 25, 2024	Cash A/c	50,000	
	To Accounts Receivable—ABC Ltd. A/c		50,000
	(Received cash from ABC Ltd.)		
Apr 28, 2024	Telephone Expense A/c	3,000	
	To Cash A/c		3,000
	(Paid telephone bill)		

Q9. The following balances were extracted from the books of ABC Ltd. on March 31, 2024. Prepare a Trial Balance.

Account Name	Amount (₹)
Capital	3,00,000
Cash in Hand	50,000
Cash at Bank	1,20,000
Purchases	1,80,000
Sales	2,50,000
Rent Paid	20,000
Salaries	30,000
Wages	15,000
Machinery	90,000
Furniture	60,000
Debtors	40,000
Creditors	55,000
Bills Payable	25,000
Bills Receivable	35,000

Sol:

Trial Balance as on March 31, 2024			
Particular	Debit (₹)	Credit (₹)	
Cash in Hand	50,000		
Cash at Bank	1,20,000		
Purchases	1,80,000		
Rent Paid	20,000		
Salaries	30,000		
Wages	15,000		
Machinery	90,000		
Furniture	60,000		
Debtors	40,000	_	

Bills Receivable	35,000	
Sales		2,50,000
Creditors		55,000
Bills Payable		25,000
Capital		3,00,000
Total	6,40,000	6,40,000

Q10. Prepare Trading and Profit & Loss Account and Balance Sheet for the year ending March 31, 2024, from the following balances:

Trial Balance as on March 31, 2024

Particulars	Amount (₹)	Particulars	Amount (₹)
Opening Stock	40,000	Sales	2,80,000
Purchases	1,60,000	Returns Outward	2,000
Wages	15,000	Discount Received	3,000
Carriage Inward	5,000	Commission Received	5,000
Salaries	25,000	Creditors	30,000
Rent	10,000	Capital	1,32,000
Machinery	1,28,000		
Debtors	35,000		
Returns Inward	4,000		
Cash	20,000		
Drawings	10,000		
Total	4,52,000		4,52,000

Adjustments:

- Closing stock is valued at ₹50,000.
- Wages outstanding ₹2,000.
- Salaries outstanding ₹3,000.
- Depreciation on machinery at 10%.

Solution

Dr Trading and Profit & Loss Account for the year ending March 31, 2024 Cr

•	2024	Cr	
Particulars	₹	Particulars	₹
To Opening Stock	40,000	By Sales	2,80,000
To Purchases	1,60,000	Less: Return Inwards (Sales Returns)	-4,000
Less: Return Outwards (Purchases Returns)	-2,000		2,76,000
	1,58,000		
To Wages	15,000	By Closing Stock	50,000
Add: Outstanding Wages	2,000		
	17,000		
To Carriage Inward	5,000		
To Gross Profit c/d (to P&L Account)	1,06,000		
	3,26,000		3,26,000
To Salaries	25,000	By Gross Profit b/d	1,06,000
Add: Outstanding Salaries	3,000	By Discount Received	3,000
	28,000	By Commission Received	5,000

A/c	1,14,000	1,14,000
To Net Profit transferred to Capital	63,200	
To Depreciation on Machinery (10%)	12,800	
To Rent	10,000	

Balance Sheet as on March 31, 2024

Liabilities	₹	Assets	₹
Capital	1,32,000	Machinery	1,28,000
Add: Net Profit		Less: Depreciation	
	63,200	(10%)	-12,800
	1,95,200		1,15,200
Less: Drawings	-10,000	Closing Stock	50,000
	1,85,200	Debtors	35,000
Outstanding Wages	2,000	Cash	20,000
Outstanding Salaries	3,000		
Creditors	30,000		
	2,20,200		2,20,200

Q11 .Prepare Trading and Profit & Loss Account and Balance Sheet for the year ending March 31, 2024, from the following balances:

Trial Balance as on March 31, 2024

Particulars	Amount (₹)	Particulars	Amount (₹)
Opening Stock	60,000	Sales	3,50,000
Purchases	2,00,000	Returns Outward	2,000
Wages	25,000	Discount Received	4,000
Carriage Inward	10,000	Commission Received	6,000
Salaries	35,000	Creditors	30,000
Rent	18,000	Capital	2,00,000
Machinery	1,50,000		
Debtors	50,000		
Cash	25,000		
Drawings	12,000		
Returns Inward	7,000		
Total	5,92,000		5,92,000

Adjustments:

- Closing Stock is valued at ₹80,000.

- Wages outstanding ₹6,000.
 Salaries outstanding ₹7,000.
 Depreciation on Machinery at 10%.
- Rent prepaid ₹2,000.

• Bad debts 10 % on debtors.

Sol:

Dr Trading	g and Profit & Loss A	Accor	int for the year ending Mar	ch 31,
	2024		cr	
Particula	ars	₹	Particulars	₹
To Opening Stock	60	,000	By Sales	3,50,00 0
To Purchases	2,0	00,00	Less: Returns Inward (Sales Returns)	-7,000
Less: Returns Outward (I Returns)	-2	2,000		3,43,00 0
Net Purchases	1,9	08,00 0		
To Wages Add: Outstanding Wages	6 31	5,000 5,000 ,000	By Closing Stock	80,000
To Carriage Inward	12	,000 24,00		
To Gross Profit c/d (to P&	L Account)	0,4.		
	4,2	23,00		4,23,00 0
To Salaries	35	5,000	By Gross Profit b/d	1,24,00 0
Add: Outstanding Salarie		,000 2,000	By Discount Received By Commission Received	6,000 4,000
To Rent	18	,000		
Less: Prepaid Rent		2,000 6,000		
To Bad debts (10% on Do 50000)	ebtors) (10% on 5	5,000		
To Depreciation on Mach		,000		
To Net Profit transferred		5,000		4 24 00
	1,3	34,00 0		1,34,00 0
	Balance Sheet as o	on Ma	arch 31, 2024	_
Liabilitie		₹	Assets	₹
Capital	2,0	00,00	Machinery	1,50,00 0
Add: Net Profit	56	5,000	Less: Depreciation (10%)	-15,000 1,35,00 0

Less: Drawings	-12,000	Closing Stock	80,000
	2,44,00 0	Debtors	50,000
Outstanding Wages	6,000	less Bad debts	-5,000
Outstanding Salaries	7,000		45,000
Creditors	30,000	Cash	25,000
		Prepaid Rent	2,000
	2,87,00		2,87,00
	0		0

Q12.. A firm reports the following financial details:

Net Sales = ₹10,00,000 Gross Profit = ₹4,00,000 Net Profit = ₹1,50,000 Operating Profit = ₹2,00,000

Compute the Gross Profit Ratio ,Net Profit ratio , Operating Profit ratio.

Given Financial Details:

Net Sales = ₹10,00,000 Gross Profit = ₹4,00,000 Operating Profit = ₹2,00,000 Net Profit = ₹1,50,000

Calculated Ratios:

1. Gross Profit Ratio

- = (Gross Profit / Net Sales) \times 100
- = (₹4,00,000 / ₹10,00,000) × 100
- = **40%**

2. Operating Profit Ratio

- = (Operating Profit / Net Sales) × 100
- = (₹2,00,000 / ₹10,00,000) × 100
- = 20%

3. Net Profit Ratio

- = (Net Profit / Net Sales) \times 100
- = (₹1,50,000 / ₹10,00,000) × 100
- = 15%