

Q1. A Co. produces & sells 1000 units of a product p.m. @ Rs. 20. If the variable cost is Rs. 12 p.u. & fixed cost is Rs. 3000 p.m. Calculate:

1. BEP in units
2. If selling price is reduced by 20%, calculate new BEP in units.
3. No. of units to be sold at the reduced selling price to earn a profit of Rs. 4000.

Q2. Fixed cost for a period Rs 5000, variable cost p.u. Rs 10, selling price p.u. Rs 20, actual units sold 750

Calculate: 1. p/v ratio 2. BEP 3. MOS 4. Profit if sales is 1000 units 5. Sales if profit is Rs 15000 6. New BEP if selling price increases by 25% 7. New BEP if selling price increases by 20%

Q3. James Bond & Co. information for last two quarters are:

Quarter ended	Sales	Cost
March	50000	40000
June	75000	55000

Calculate: 1. p/v ratio 2. Fixed cost 3. BEP 4. Sales to earn a profit of Rs 15000 5. Profit when sales is Rs 40000 6. Revised BEP if fixed cost increases by 30%

Q4. Sales (1000 units) Rs 100000, variable cost Rs 40000, fixed cost Rs 50000, Calculate:

1. p/v ratio, BEP, MOS
2. evaluate the effect of the following on the above:
 - a. 20% increase in physical sales volume
 - b. 15% decrease in physical sales volume
 - c. 5% increase in variable cost
 - d. 10% decrease in fixed cost

Q5. Sales & profits during the 2 years is :

Year ending 31/03	Sales	Profit
2004	400000	40000
2005	600000	80000

Calculate: p/v ratio, fixed cost, variable cost, BEP, MOS. If the Co. wants to have a profit of Rs 12000 what should be the level of sales? Profit when sales are Rs 750000, Revised BEP if Fixed cost increases by 20%.

Q6. Sales & profits during the 2 years is :

Year ending 31/03	Sales	Total cost
2004	2223000	1983600
2005	2451000	2143200

Calculate: p/v ratio, fixed cost, fixed cost to sales, variable cost, BEP, MOS.

Q7. From the following calculate BEP in rupees & also ascertain the no. of units to be sold to earn a profit of Rs 60000 per year.

Sales price Rs 20 p.u., variable manufacturing exp. Rs 11 p.u., Variable selling exp. Rs 3 p.u., Fixed Factory OHs Rs 540000 p.a., Fixed selling exp. Rs 252000 p.a.

Q8. Fast track Ltd. Summarized performance was declared as (Rs Lakhs)

Particulars	2005	2006
Sales	500	600
Profit	200	245

The chairman expects 50% jump in sales during 2007 over 2006. Calculate:

- Expected profit in the year 2007
- MOS in the year 2005
- BEP in the year 2006
- Capacity utilization in the year 2007 if the company is operating at 30% capacity in the year 2005
- Sales target in 2007 if profit desired in 2007 was double the 2005 profit

Q9. If the budgeted output is 80000 units, Fixed cost is Rs 400000, selling price p.u. is Rs 20 & variable cost p.u. is Rs 10, find BEP sales, BEP units, p/v ratio & MOS.

Q10. Z Ltd produces & sells a single article at Rs 10 each. The marginal cost of production is Rs 6 each & fixed cost is Rs 400 per annum. Calculate: p/v ratio, BEP, MOS, profit when sales is Rs 800, sales when profit is Rs 250.

Q11. Total no. of units manufactured & sold 400, variable cost p.u. Rs 30, total fixed cost Rs 5000, selling price p.u. Rs 80, Calculate: p/v ratio, BEP, MOS, profit when sales is Rs 25000, sales when profit is Rs 12500.

Q12. Total fixed cost Rs 12000, variable cost p.u. Rs 80, Selling price p.u. Rs 140, Calculate: p/v ratio, BEP, MOS, profit when sales is Rs 18000, sales when profit is Rs 2500.

Q13. Total no. of units manufactured & sold 800, variable cost p.u. Rs 20, total fixed cost Rs 1000, selling price p.u. Rs 120, Calculate: p/v ratio, BEP, MOS, What is the current profit? How much should the Co. sell to earn a target profit of Rs 100000?

Q14. Budgeted sales are 12500 units @ Rs 20 p.u.

Particulars	Variable cost p.u.	Fixed cost
Direct material	3	-
Direct labour	3	-
Factory OHs	2	50000
Selling exp.	2	20000
Admin OHs	2	10000

Calculate: 1. p/v ratio 2. BEP 3. Profit at budgeted sales 4. MOS at budgeted sales 5. profit if actual sales a) decrease by 20% from budgeted sales b) increase by 5% from budgeted sales.

Q15. From the following information calculate:

- BEP
- P/v ratio

- c. Profit
- d. Profit @ 75% capacity
- e. Profit @ 100% capacity
1. Budgeted sales Rs 200000 (80% capacity)
2. Direct material 30% of sales
3. Direct labour 20% on sales
4. Variable OHs (F) 10% on sales
5. Variable OHs (O) 15% on sales
6. Fixed cost Rs 30000

Q16. Fixed cost Rs 4500, sales Rs 15000, variable cost Rs 7500, units sold 500, calculate:

- a. p/v ratio, b. BEP, c. MOS, d. profit, e. sales to earn a profit of Rs 6000.

Q17. Fixed exp. Rs 40000, BEP (in RS) Rs 10000, calculate:

- a. p/v ratio, b. profit when sales is Rs 20000, c. BEP when selling price is reduced by 20%, d. sales in Rs. to earn a profit of Rs 4000 after reducing selling price by 20%.

Q18. A firm sells 25000 units at a selling price of Rs 5 p.u., its fixed cost Rs 40000 & variable exp. Rs 50000, find out BEP for the firm, also find BEP when:

- a. selling price is increased by 30%, b. fixed cost is increased by 15%, c. fixed cost is decreased by 25%, d. selling price is decreased by 20%

Q19. FIND out p/v ratio, BEP, profit if sales is Rs 100000, sales when profit is Rs 20000, MOS, Fixed cost

Period	Sales	PROFIT
1	120000	9000
2	140000	13000

Q20. FIND out p/v ratio, BEP, MOS, Fixed cost

Period	Sales	PROFIT
2013	2700000	(20000)
2014	4500000	70000