

Cracking the Code: Breakeven analyisis in Managerial Accounting

Introduction

- PROFIT PLAYS THE "HERO ROLE"
- ELEMENTS THAT DETERMINE PROFIT ARE:
- 1. COST OF PRODUCTION
- 2. SELLING PRICE
- 3. VOLUME OF SALES
- ALL THE THREE ELEMENTS ARE INTERDEPENDENT
- BREAKEVEN ANALYSIS IS ALSO
 KNOWN AS COST-VOLUME-PROFIT-ANALYSIS
- A MANAGEMENT ACCOUNTING TOOL
 FOR PROFIT PALNNING





BROAD & NARROW VIEW

- 1. DETERMINING BREAKEVENPOINT
- 2. STATE THE REALTIONSHIP BETWEEN COST VOLUME AND SALES AT DIFFERENT LEVEL OF OPERATIONS

A BREAKEVEN ANALYSIS INDICATES THE LEVEL AT WHICH COST AND REVENUE ARE IN EQUILLIBRUIM -MATZ CURRY AND FRANT

BASIC ASSUMPTIONS

- ALL THE ELEMENTS OF COST CAN BE SEGREGATED
- COST AND REVENUE ARE INFLUENCED BY VOLUME
- SELLING PRICE PER UNIT IS UNCHANGED
- VARIABLE COST CHANGES
- TFC IS CONSTANT
- PRODUCTIVITY PER WORKER IS UNCHAGED
- IT RELATES TO ONLY ONE PRODUCT
- CETIRUS PARIBUS





BREAK-EVEN POINT

- A POINT WHERE TOTAL SALES IS EQUAL TO TOTAL COST
- A POINT WHERE THERE IS NO PROFIT OR LOSS
- INCOME OF THE BUISNESS IS EQUAL TO ITS EXPENDICTURE
- AT THIS POINT, CONTRIBUTION IS EQUAL TO FIXED COST.
- COMPUTATION OF POINT;
- 1. ALGEBRAIC FORMULS METHOD
- 2. GRAPHIC OR CHART METHOD



ALGEBRAIC FORMULA

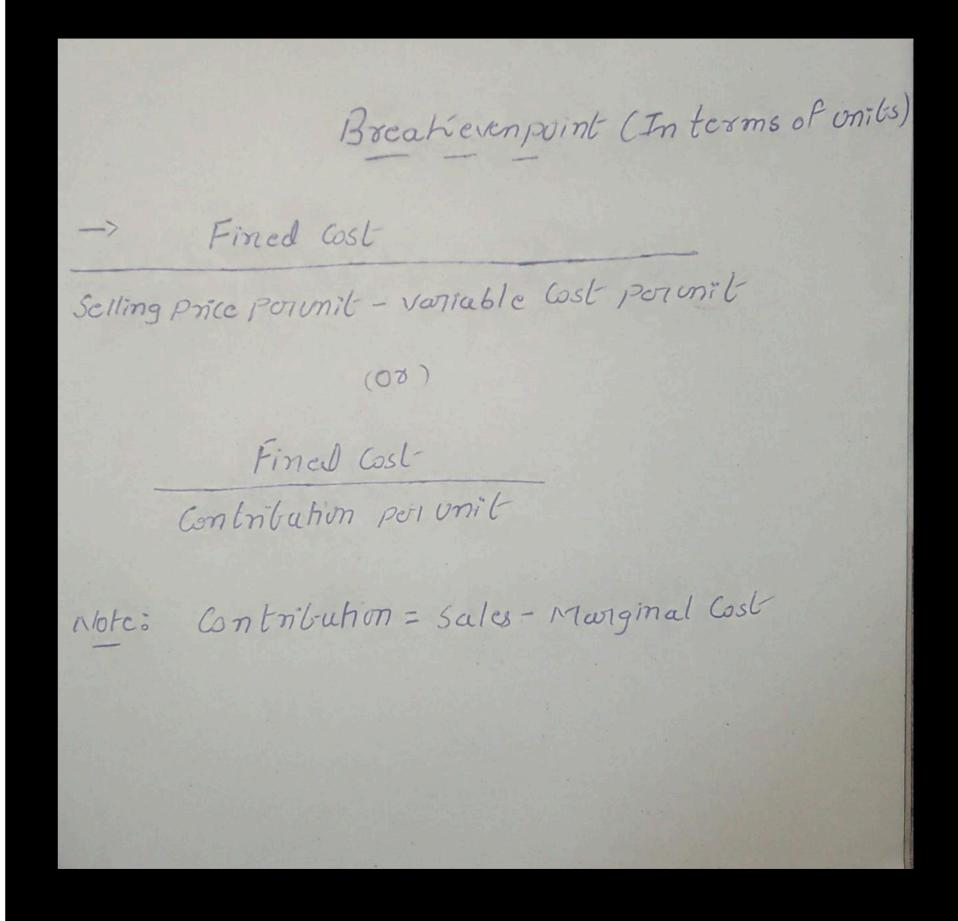
- 1. BREAKEVEN POINT IN UNITS
- 2. IN TERMS OF BUDGET OR MONEY VALUE
- 3. AS A PERCENTAGE OF ESTIMATED CAPACITY

IN TERMS OF UNIT

- THAT QUANTITY OR VOLUME OF SALES WHERE COST IS EQUAL TO EXPENDICTURE
- A FIRM WHICH PRODUCES SINGLE PRODUCT

QUESTION?

FIXED COST=2,00,000 SELLINGPRICE=20 VARAIABLE COST PER UNIT=10 BEP=2,00,000/20-10=20,000 units



- BREAK EVEN POINT IN TERMS OFSALES
- ALSO KNOWN AS BREAKEVEN POINT IN TERMS OF BUDGET
- USE THEM AS PER THE QUESITON'S REQUIREMENT

BREAKEVEN CHART

- BREAKVENE POINT CAN BE COMPUTED GRAPHICALLY
- IT SHOWS A PICTORIAL VIEW OF RELATIONSHIP BETWEEN CVP
- BEP IS INDICATED AT THE POINT WHERE TOTAL COST LINE AND TOTAL SALE LINE INTERSECT

IT HIGHLIHTS

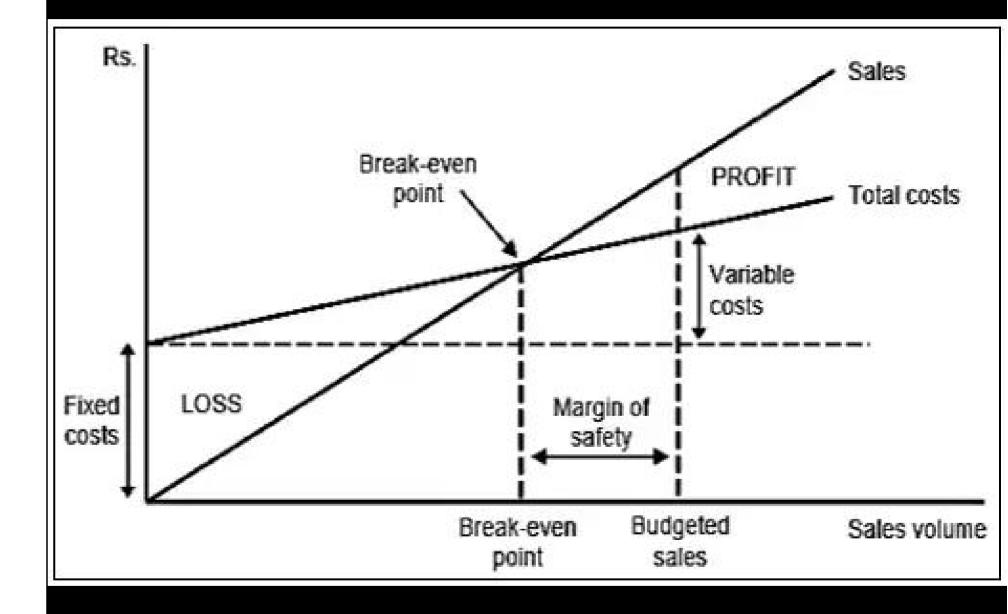
- FIXED COST, VARIABLE COST, TOTAL COSTS
- SALES VALUE
- PROFIT OR LOSS
- BEP
- MARGIN OF SAFTEY



BREAK EVEN CHART

- X AXIS DISPLAYS VOLUME OF SALES
- Y AXIS DISPLAYS TOTAL COST AND SALES
- BEP IS THE BREAKEVEN POINT WHERE REVENUE LINE AND COST LINE COINCIDE
- DOTTED LIFE REPRESENTS TFC
- TOATAL COST=TFC=TVC
- LOSS AND PROFIT ZONES

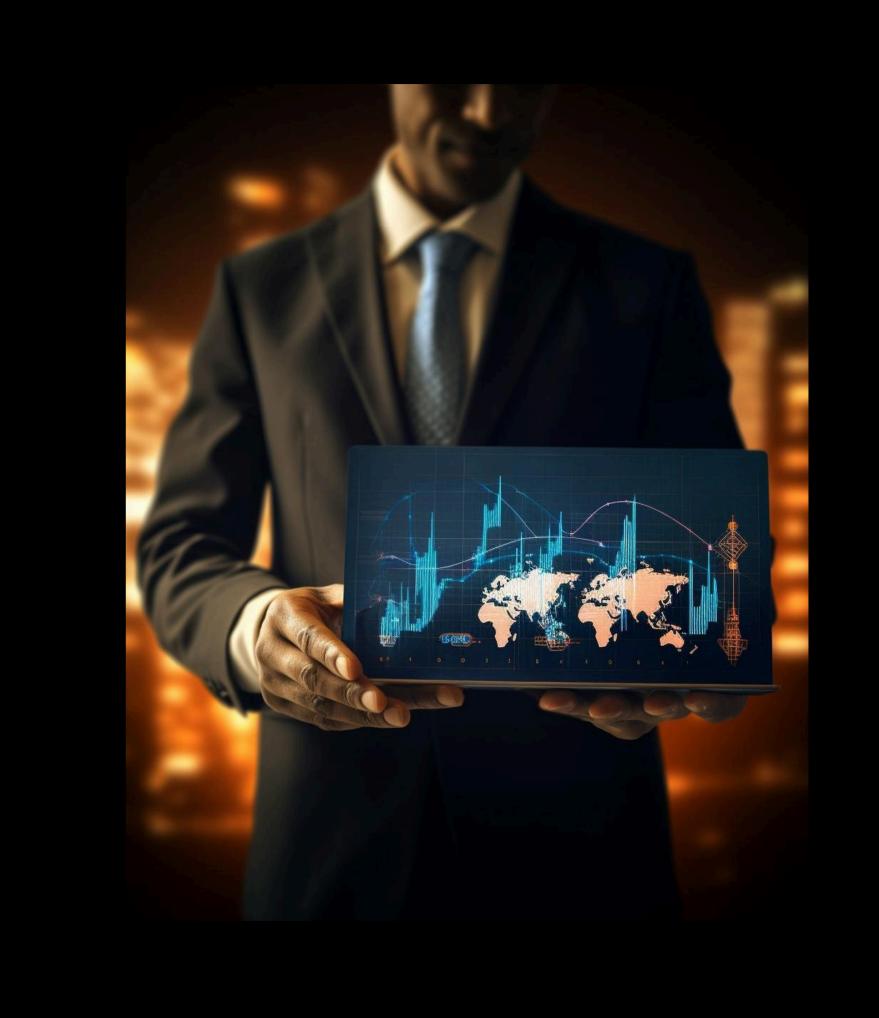
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TIME OF A QUESTION

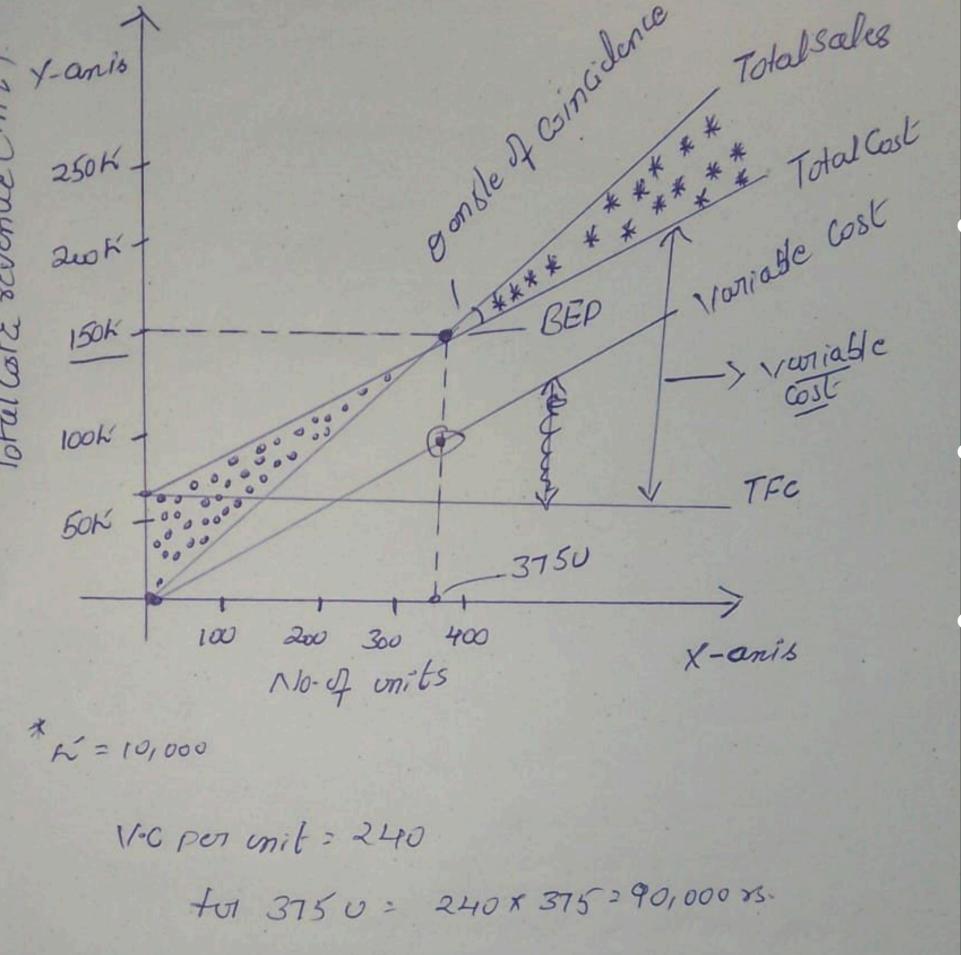
PLOT THE FOLLOWING ON GRAPH AND DETERMINE THE BEP:

- 1. LABOUR=100 PER UNIT
- 2. DIRECT MATERIAL=40/UNIT
- 3. VARIABLE COST IS 100% OF DIRECT LABOUR
- 4. FIXED OVERHEAD=7000RS
- 5. SELLING PRICE 400RS



Total variable cost (per unit) Labour - 100 * Selling price = 400 Direct Mat - 40 Variable overhead - 100 240 Contribution = Selling price - 10.0 = 400 -240 = 160 = 60,000 BEP (in unit) = FC 160 Coston por unit = 375 units BEP (Name) = BEP (in units x selling price 375 x 400 = 1, 50,000

LETS PLOT IT



KEY TAKE AWAYS

- WE COMPARE THE GIVEN ANALYSIS WITH PROJECTED SALES TO MAKE SURE WETHER THE BUISNESS UNIT IS OPERATING PROFITABLY OR NOT
- SAY ACTUAL SALES THAT YEAR WAS 200K THE IT FALLS UNDER PROFIT ZONE
- SIMILARLY IF THE PROJECTED SALES WAS 100K IT WOULD FALL UNDER LOSS ZONE

ANY QUESTIONS FEEL FREE TO









STILL GOT QUESTIONS

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