MANAGEMENT ACCOUNTING SPRING 2025

Management Accounting

PRACTICAL CLASS 12

| CARCAVELOS CAMPUS





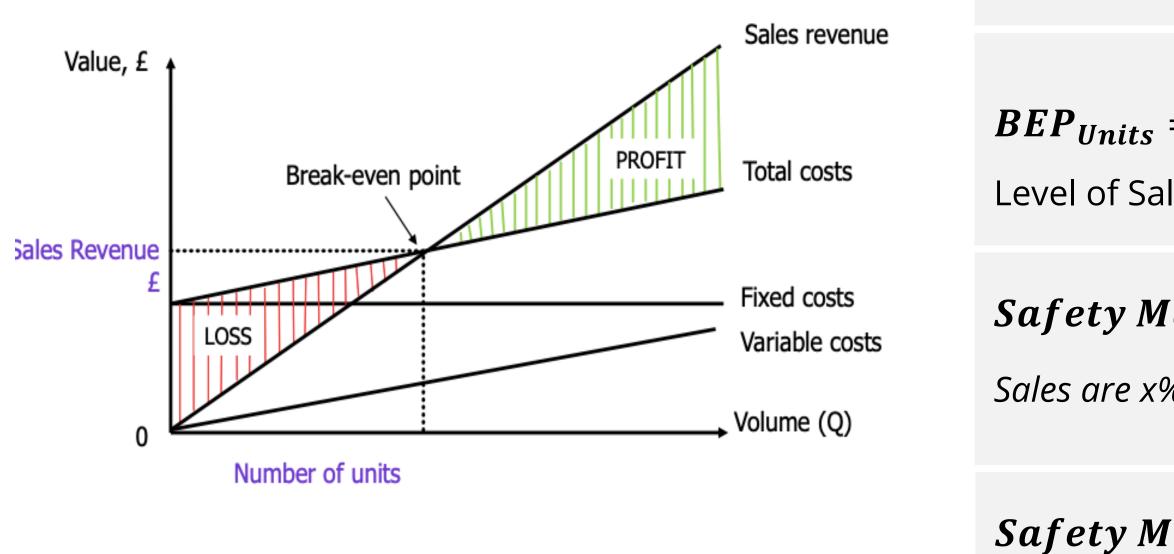


Unit Contribution Margin $(CM_{Unit}) = Price - VC$

How much does each unit contributes to profit

CVP Analysis

HOW PROFITABILITY IS AFFECTED BY VOLUME





$$CM_{\%} = \frac{CM_{unit}}{P} * \frac{Q}{Q} = \frac{CM}{Sales Revenue}$$

% of sales available to cover FC and profit

$$F_{S} = \frac{FC}{P - VC}$$
, $BEP_{\in} = BEP_{Units} * Price$

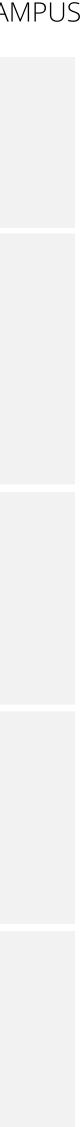
Level of Sales such that Profit = 0

Margin 1 =
$$\frac{Sales - BEP}{BEP}$$

% above the BEP

Safety Margin 2 =
$$\frac{Sales - BEP}{Sales}$$

Sales may decline x% before the firm incurs into a loss



Exercise

27 – BOA PINGA COMPANY



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CVP Analysis **PROFIT LEVEL**

Under the CVP Analysis, the Profit of a Company only depends on the volume of the sales against the BEP.

Each unit sold contributes P – VC (CM Unit) to the profit of the firm. The first X (BEP_#) units are used to pay the FC, whereas the remaining constitute profit.

Alternatively, from the total value of sales, we know that (CM%)

* Sales is divided among profit and payment of FC.



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Let X# be the number of units sold by a firm: $\pi = (X \# - BEP_{Units}) * CM_{Unit}$

Similarly, let **X€ be the value of Sales**

$$\pi = X \in * CM_{\%} - FC$$