MKT100 Metrics Formula Sheet

Metrics 1: Understanding and Managing Costs

Variable Costs: Depends on the company's production volume. Usually includes the word 'per.' Includes things such as direct materials, direct labour, transportation, and commission.

Fixed Costs:

- Capital Costs: costs that happen regardless of the quantity produced or sold and are deducted in <u>more than</u> one period [includes depreciation and PP&E]
- Operating Costs: costs that happen regardless of the quantity produced or sold and are deduced in <u>one</u> <u>period</u> [includes rent, utilities, insurance]

Total Margin = Total Revenue - Total Variable Costs (or Cost of Goods Sold)

Markup (\$) or Margin (\$) = Selling Price - Cost

Metrics 2: Percentage Change

Percent (%) Change =
$$\frac{(New Value-Old Value)}{Old Value} \times 100$$

Net Profit = Total Margin (\$) - Fixed Costs

Herfindahl Index = Sum [(% Market Share of each Product/Company)2]

- If greater than 0.18 = high concentration, not competitive
- If less than 0.18 = low concentration, competitive

Three [Four] Firm Concentration Ratio = % Market Share Competitor 1 + % Market Share Competitor 2 + % Market Share Competitor 3 [+ % Market Share Competitor 4]

- If greater than 67% = high concentration, not competitive
- If less than 67% = low concentration, competitive

Metrics 3: Market Share and Market Analytics

Market Share (%) =
$$\frac{Brands \, sales \, (\$ \, or \, \#)}{Total \, Market \, Sales \, (\$ \, or \, \#)} x \, 100$$

Relative Market Share (%) =
$$\frac{\textit{Brand's Sales (\$ or \#)}}{\textit{Largest Competitor's Sales (\$ or \#)}} x \ 100$$

Metrics 4: Contribution Margin

Contribution Margin (%) =
$$\frac{Contribution Margin (\$)}{Revenue (\$)} \times 100$$



Ü

METRICS FORMULA SHEET

Gross Profit = Total Revenue - Total Variable Costs (or Cost of Goods Sold)

Net Profit = Gross Profit - Fixed Costs

Percent (%) Change = (New Value - Old Value) x 100 Old Value

Herfindahl Index = Sum [(% Market Share of each Product/Company)²]

Three [Four] Firm Concentration Ratio = % Market Share Competitor 1 + % Market Share Competitor 2 + % Market Share Competitor 3 [+ % Market Share Competitor 4]

Market Share (%) = Brand's Sales (in \$ or #) x 100 Total Market Sales (in \$ or #)

Relative Market Share (%) = $\frac{\text{Brand's Sales (in \$ or \#)}}{\text{Largest Competitor's Sales (\$ or \#)}}$ x 100

Contribution Margin (%) = $\frac{\text{Contribution Margin (\$)}}{\text{Revenue (\$)}}$ x 100 $OR = \frac{\text{Contribution per Unit (\$)}}{\text{Selling Price per Unit (\$)}}$

Contribution Margin per Unit (\$) = Price per Unit - Variable Cost per Unit

 $\frac{\text{Markup (\%)}}{\text{Cost (\$)}} \times 100 \qquad OR = \underbrace{\text{(Selling Price - Cost)}}_{\text{Cost}} \times 100$

Margin (%) = $\underline{\text{Margin (\$)}}$ x 100 OR = $\underline{\text{(Selling Price - Cost)}}$ x 100 Selling Price (\$)

Selling Price = Cost + Contribution Margin (\$)

 $OR = Cost \times (1 + Markup \%)$

 $OR = \frac{\text{Cost}}{(1 - \text{Margin \%})}$

Supplier Selling Price (\$) = Customer's Selling Price (\$) - Customer's Margin (\$)

OR = Customer's Selling Price (\$) x [1 - Customer's Margin (%)]

Break-even Revenue (\$) = Break-even Volume (#) x Price per Unit (\$)

 $OR = \frac{\text{Fixed Cost (\$)}}{\text{Contribution Margin (\%)}}$

Break-even Volume (#) = Fixed Cost (\$)_ Contribution per Unit (\$)

ROMI (%) = Incremental Revenue (\$) x CM (%) - Mktg Spending (\$) x 100 Marketing Spending (\$)

Incremental Revenue = (1 + ROMI) x Incremental marketing investment
Contribution Margin (%)

Contribution Margin (%) =
$$\frac{Contribution per Unit (\$)}{Selling Price per Unit (\$)}$$

Contribution Margin per Unit (\$) = Price per Unit - Variable Cost per Unit

Metrics 5: Markup and Margin

$$Markup$$
 (%) = $\frac{Markup$ (\$) OR $Markup$ (%) = $\frac{(Selling\ Price-Cost)}{Cost} x$ 100

$$Margin(\%) = \frac{Margin(\$)}{Selling\ Price(\$)} x\ 100 \quad OR \quad Margin(\%) = \frac{(Selling\ Price-Cost)}{Selling\ Price} \ x\ 100$$

Metrics 6: Pricing Wholesale to Retail

Manufacturer > Wholesaler > Retailer > Customer



Selling Price = Cost + Contribution Margin (\$)

Supplier Selling Price (\$) = Customer's Selling Price (\$) - Customer's Margin (\$)

OR = Customer's Selling Price (\$) x [1 - Customer's Margin (%)]

Metrics 7: Break-Even

Break-Even Revenue (\$) = Break-even Volume (#) x Price per Unit (\$)

$$Break - even Volume (#) = \frac{Fixed Cost (\$)}{Contribution per Unit (\$)}$$

Profit = Sales - Variable Costs - Fixed Costs, set P=0 to find Break-Even Price

Metrics 8: Return on Marketing Investment (ROMI)

ROMI (%) =
$$\frac{Incremental Revenue (\$) \times CM (\%) - Mktg Spending (\$)}{Marketing Spending (\$)} \times 100$$

$$Incremental Revenue = \frac{(1+ROMI)x Incremental Marketing Investment}{Contribution Margin (\%)}$$