## FORMULAE AND KEY DATA

Number	Formula
1	Total costs = Fixed costs + Variable costs
2	Profit = Total revenue - Total costs OR Total contribution - Fixed costs
3	Total variable costs = Variable cost per unit $\times$ Number of units sold
4	Sales revenue or Turnover = Selling price per unit × Number of units sold
5	Market capitalisation of a business = Number of issued shares $\times$ Current share price
6	Expected value of a decision with two possible outcomes - A & B = (Pay-off of A $\times$ probability of A) + (Pay-off of B $\times$ probability of B) N.B. Probability of A + Probability of B = 1.0
7	In a decision tree Net gain = Expected value - Initial cost of decision
8	Market size volume is the quantity of goods and services produced in a particular market over a period of time usually one year .
9	Market size (value) is the total sales revenue generated from selling all of the goods and services produced in a particular market over a period of time (usually one year).
10	Sales volume is the quantity of goods and services produced by a particular business over a period of time (usually one year).
11	Sales value is the total sales revenue of a particular business over a period of time usually (one year).
12	Market growth (%) in year'X'= $\frac{\text{Change in the size of the market between year (X-1) and year X}}{\text{Size of the market in year (X-1)}} \times 100$
13	Sales growth % in year'X' = $\frac{\text{Change in sales of product or business between year (X-1) and year X}}{\text{Sales of product or business in year (X-1)}} \times 100$
14	Market share % = $\frac{\text{Sales of one product OR brand OR business}}{\text{Total sales in the market}} \times 100$
15	Price elasticity of demand = $\frac{Percentage change in quantity demanded}{Percentage change in price} \times 100$
	Price inelastic demand has a coefficient in the range 0 to -1. Price elastic demand has a coefficient in the range -1 to - $\infty$
16	Added value (value added) = Sales revenue-costs of bought-in goods and services

17	Labour productivity = $\frac{\text{Output per time period}}{\text{Number of employees}}$
18	Unit costs (average costs) = $\frac{\text{Total costs of production}}{\text{Number of units of output produced}}$
19	Capacity utilisation (%) = $\frac{\text{Actual output in a given time period}}{\text{Maximum possible output in a given time period}} \times 100$
20	Return on investment (%) = $\frac{\text{Return on investment }(\mathfrak{L})}{\text{Cost of the investment }(\mathfrak{L})} \times 100$
21	Gross Profit = Sales Revenue - Cost of Sales
22	Profit from Operations = Operating profit = Sales Revenue - Cost of Sales - Operating Expenses
23	Profit for year = Operating profit + Profit from other activities - Net finance costs -Tax
24	Variance = The difference between an actual and a budgeted figure. Favourable variance results in profits being higher than forecast. Adverse variance results in profits being lower than forecast.
25	Contribution per unit = Selling price - Variable costs per unit
26	Total contribution = Contribution per unit $\times$ Units produced or sold OR Total contribution = Total revenue - Total variable costs
27	Break-even output = $\frac{\text{Fixed costs}}{\text{Contribution per unit}}$
28	On a break-even chart the break-even output is the level of output at which Total Revenue equals Total Costs.
29	On a break-even chart the level of profit at a given level of output is the vertical distance between the Total Revenue line and the Total Cost line.
30	Margin of safety = Actual level of output - Breakeven level of output
31	Gross profit margin (%) = $\frac{\text{Gross profit}}{\text{Sales revenue}} \times 100$
32	Profit from operations margin = Operating profit margin (%) = $\frac{\text{Operating profit}}{\text{Sales revenue}} \times 100$
33	Profit for year margin (%) = $\frac{\text{Profit for year}}{\text{Sales revenue}} \times 100$
34	Labour turnover (%) = $\frac{\text{Number of staff leaving during the year}}{\text{Average number of staff employed by the business during the year}} \times 100$
35	Employee retention rate (%) for a particular time period=
	Number of staff leaving during the year $\frac{100}{100}$

