

Break-Even Worksheet

Price 300.00	Var. Cost 250.00	Quantity 3,200.00
Fix Cost 150,000.00		Profit 10,000.00
Total Sales	Total Cost	Cost / Unit

This worksheet implements a quick way to perform break-even analysis based on the following equation:

$$\text{Profit} = (\text{Price} - \text{Var. Cost}) \cdot \text{Units} - \text{Fix. Cost}$$

Break-Even Menu Actions	
[Price]	Stores or calculates the Price value : Price = (Profit + Fix.Cost) ÷ Units + Var.Cost
[Var.Cost]	Stores or calculates the Variable Cost value : Var.Cost = Price - (Profit + Fix.Cost) / Units
[Fix Cost]	Stores or calculates the Fix Cost value : Fix.Cost = (Price - Var.Cost) · Units - Profit
[Units]	Stores or calculates the Number of Units value : Units = (Profit + Fix.Cost) / (Price - Var.Cost)
[Profit]	Stores or calculates the Profit value : Profit = (Price - Var.Cost) · Units - Fix.Cost
[Total Sales]	Calculates the Total Sales Value: Total Sales = Price · Units
[Total Cost]	Calculates the Total Cost value: Total Cost = Var.Cost · Units + Fix Cost
[Total Cost per Unit]	Calculates the Total Cost per unit value: Unit Cost = Total Cost / Units
If any other key is pressed before one of the Blue keys, the displayed number is stored in the corresponding variable. Otherwise, the variable is calculated.	

Example :

The sale price of an item is \$300.00, the cost of production per unit is \$250.00, and the monthly fixed cost of the business is \$150,000.00. How many units would have to be sold for break-even? and for profit of 10,000.00?.

Keystrokes	Description
300 [Price]	Stores the sale price of the item.
250 [Var.Cost]	Stores the variable cost of the item.
150000 [Fix.Cost]	Stores the fixed cost of the business.
0 [Profit]	Stores the "0" profit (break-even).
[Units]	Calculates the number of units to be sold. Units = 3,000 items
10000 [Profit]	Stores the the target profit.
[Units]	Calculates the number of units to be sold. Units = 3,200 items

What is the total cost per unit for break-even and for a profit of \$10,000.00?

Keystrokes	Description
0 [Profit] [Units]	Stores the "0" profit (break-even) and calculates Units
[Cost / Unit]	Calculates the total cost per item. Cost = 300.00 per item.
10000 [Profit] [Units]	Stores the "10,000" profit and calculates Units = 3,200.00
[Cost / Unit]	Calculates the total cost per item. Cost = 296.88 per item.