

Formulas

Profit, Loss, Discount and Different Prices

1.	$Profit = SP - CP$
2.	$Loss = CP - SP$
3.	$Profit\% = \frac{Profit}{CP} \times 100$
4.	$Loss\% = \frac{Loss}{CP} \times 100$
5.	$SP = \left(\frac{100 + Profit\%}{100}\right) \times CP$
6.	$CP = \left(\frac{100}{100 + Profit\%}\right) \times SP$
7.	$SP = \left(\frac{100 - Loss\%}{100}\right) \times CP$
8.	$CP = \left(\frac{100}{100 - Loss\%}\right) \times SP$

9.	$Discount = MP - SP$
10.	$SP = MP - Discount$
11.	$MP = SP + Discount$
12.	$SP = \left(\frac{100 - Discount\%}{100}\right) \times MP$
13.	$MP = \left(\frac{100}{100 - Discount\%}\right) \times SP$
14.	$SP = \left(\frac{100 - d_1}{100}\right) \left(\frac{100 - d_2}{100}\right) \left(\frac{100 - d_3}{100}\right) \times MP$
15.	$Single\ discount\ as\ percent = MP - SP$

Abbreviations:

SP \Rightarrow selling price

CP \Rightarrow cost price

MP \Rightarrow marked price

d \Rightarrow discount

d_1 \Rightarrow first discount %age

d_2 \Rightarrow second discount %age

d_3 \Rightarrow third discount %age