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.
$$SP = (\frac{100 + Profit\%}{100}) \times CP$$

6.
$$CP = (\frac{100}{100 + Profit\%}) \times SP$$

7.
$$SP = (\frac{100 - Loss\%}{100}) \times CP$$

8.
$$CP = (\frac{100}{100 - Loss\%}) \times SP$$

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 ⇒ selling price

 $CP \Rightarrow cost price$

MP ⇒ marked price

 $d \Rightarrow discount$

 $d_1 \Rightarrow$ first discount %age

 $d_2 \Rightarrow$ second discount %age

 $d_3 \Rightarrow$ third discount %age