

NUMBER SYSTEM - PROFIT & LOSS

Advertisements

1. **Cost Price, (c.p.)** = The price, at which an article is purchased, is called its cost price.
2. **Selling price (s.p)** = The price, at which an article is sold, is called its selling price.
3. **Profit or Gain** = (S.P) - (C.P)
4. **Loss** = (C.P) - (S.P)
5. Gain or Loss is always reckoned on C.P.

Formulae

1. $\text{Gain\%} = (\text{Gain} * 100) / \text{C.P}$
2. $\text{Loss\%} = (\text{Loss} * 100) / \text{C.P}$
3. $\text{S.P} = (100 + \text{Gain \%}) / 100 * (\text{C.P})$
4. $\text{S.P} = (100 - \text{Loss \%}) / 100 * (\text{C.P})$
5. $\text{C.P} = 100 / (100 + \text{Gain \%}) * (\text{S.P})$
6. $\text{C.P} = 100 / (100 - \text{Loss \%}) * (\text{S.P})$

Important cases

1. If an article is sold at a profit of say, 20%, then SP = 120% of CP.
2. If an article is sold at a loss of say, 20%, then SP = 80% of CP.
3. When a person sells two similar items, one at a gain of say x% and the other at a loss of say x%. then the seller always incurs a loss given by:

$$\text{Loss\%} = (x/10)^2$$

4. If a seller sells his goods at cost price but uses false weights, then

$$\text{Gain\%} = [\text{Error} / (\text{True value} - \text{Error}) * 100]\%$$

Solved Examples

[Solved Examples](#)

[aptitude_profit_loss.htm](#)