Profit or Loss

Understanding: Profit or Loss

- When something is bought and sold, we may earn a profit or face a loss.
- Cost Price (C.P.) is the price at which an item is bought.
- Selling Price (S.P.) is the price at which the item is sold.

Profit

- When S.P. > C.P.
- Formula: Profit = S.P. C.P.

Loss

- When C.P. > S.P.
- Formula: Loss = C.P. S.P.

Profit% or Loss%

- Profit% = $\left(\frac{Profit}{C.P.}\right) \times 100$
- Loss% = $(\frac{Loss}{CP}) \times 100$

Examples with Solutions

Example

Profit% =
$$(\frac{20}{100}) \times 100 = 20\%$$

Example

Loss% =
$$(\frac{50}{250}) \times 100 = 20\%$$

Example

A shopkeeper buys a toy for ₹150 and sells it for ₹180

Profit% =
$$(\frac{30}{150}) \times 100 = 20\%$$

Example

A pen is bought for ₹40 and sold for ₹35

Loss% =
$$(\frac{5}{40}) \times 100 = 12.5\%$$

Example

Find the S.P. if C.P. = ₹300 and Profit% = 10%

Profit =
$$(\frac{10}{100}) \times 300 = ₹30$$

Summary Points

- Profit = S.P. C.P., when S.P. > C.P.
- Loss = C.P. S.P., when C.P. > S.P.

• Profit% =
$$(\frac{Profit}{CP}) \times 100$$

• Loss% =
$$\left(\frac{Loss}{C.P.}\right) \times 100$$

- Always calculate percent on cost price.
- Real-life uses include shopping, business, and savings.