

Profit & Loss - 1

A Shopkeeper sold an article for Rs. 2564.36. Approximately what was his profit percent of the cost price of the article was Rs. 2400.

- (a) 4%. (b) 5%. (c) 6%. (d) 7%. (e) None of these

$$S.P = 2564.36 \text{ rs} \checkmark$$

$$\% \text{ profit} = ?$$

$$C.P = 2400 \text{ rs} \checkmark$$

$$\% \text{ Profit} = \frac{\text{Profit}}{C.P} \times 100$$

$$= \frac{164.36}{2400} \times 100 = 7\% \checkmark$$

$$\% \text{ profit} = \frac{\text{Profit}}{C.P} \times 100$$

Pen = 10rs = C.P $\checkmark$
= 15rs = S.P $\checkmark$

$$\% \text{ loss} = \frac{\text{Loss}}{C.P} \times 100$$

Profit = 15 - 10 = 5rs
Profit = S.P - C.P $\checkmark$

$$\text{Profit} = S.P - C.P \checkmark$$

$$= 2564.36 - 2400.00 = 164.36 \checkmark$$

$$\text{Pen} = 10\text{rs} = C.P \checkmark$$
$$8\text{rs} = S.P$$

$$\text{loss} = 10 - 8 = 2$$
$$\text{loss} = C.P - S.P \checkmark$$

Q2. A book was sold for Rs. 27.50 with a profit of 10%. If it were sold for Rs. 25.75, then would have been percentage of profit and loss.

(a) 2% profit (b) 3% profit (c) 2% loss (d) 3% ~~profit~~ ^{loss} (e) None of these

✓ $S.P. = 27.50 \text{ Rs}$

✓ $\% \text{ Profit} = 10\%$

$C.P. = ?$ ✓

$$S.P. = C.P. \times \frac{(100 + \% \text{ profit})}{100}$$

$$2.5 \times 27.5 = C.P. \times \frac{110}{100}$$

$$C.P. = 2.5 \times 10$$

$$\boxed{C.P. = 25 \text{ Rs}}$$

$$C.P. = \frac{25 \times 10}{100} = 2.5$$

$$C.P. = \frac{25 \times 2.5}{27.5} = 2.2$$

$S.P. = 25.75$ ✓, $C.P. = 25 \text{ Rs}$ ✓

$\% \text{ Profit or } \% \text{ loss} = ?$

$\text{Profit} = S.P. - C.P.$

$= 25.75 - 25$

$= 0.75 \text{ Rs.}$

$$S.P. = C.P. \times \frac{(100 + \% \text{ profit})}{100}$$

$$S.P. = C.P. \times \frac{(100 - \% \text{ loss})}{100}$$

$\% \text{ Profit} = \frac{\text{Profit}}{C.P.} \times 100$

$$= \frac{0.75}{25} \times 100 = 3\%$$