

Profit & Loss - 1

1. A Shopkeeper sold an article for Rs. 2564.36. Approximately what was his profit percent if the cost price of the article was Rs. 2400.
a) 4% b) 5% c) 6% d) 7% e) None of these

$$S.P = 2564.36$$

$$C.P = 2400$$

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

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

$$= \frac{164.36}{2400} \times 100$$

$\Rightarrow$

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

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

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

$$= \frac{2564.36}{2400.00}$$
$$164.36$$

C.P $\Rightarrow$ cost price

Pen $\Rightarrow$ loss $\Rightarrow$ C.P

15rs $\Rightarrow$ S.P $\Rightarrow$ selling

$$\text{Profit} = S.P - C.P$$
$$= 15 - 10 = 5$$

C.P = 10rs $\Rightarrow$ cost price

S.P = 8rs $\Rightarrow$ selling price

$$\text{Loss} = 10rs - 8rs = 2rs$$
$$= C.P - S.P$$

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% loss e) None of these

✓ $S.P = 27.50 \text{ Rs}$ ✓
 ✓ Profit = 10% ✓

$\xrightarrow{\text{C.P.}}$ $CP = 25 \text{ Rs}$

$S.P = 25.75 \text{ Rs}$ $CP = ?$

Profit / Loss % = ?

$CP = 25 \text{ Rs}$

Profit = $SP - CP$

$= 25.75 - 25.00$
 $= 0.75 \text{ Rs}$

$SP = CP \times \left(\frac{100 + \% \text{ Profit}}{100} \right)$

$= \frac{27.50}{100} = CP \times \frac{110}{100}$

$CP = 25 \text{ Rs}$

$S.P = CP \times \frac{100 \pm \% \text{ Profit/Loss}}{100}$

Profit

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

Supreme Court

$\% \text{ Profit} = \frac{\text{Profit} \times 100}{CP}$

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

3%