



Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q7

Answer :

A dealer buys a wrist watch *for* Rs. 225
 Money spent *on repairing the watch* = Rs. 15

Therefore, C.P = Rs. $(225 + 15) = \text{Rs. } 240$

S.P = Rs. 300

$$\begin{aligned}\text{Profit} &= \text{SP} - \text{CP} \\ &= \text{Rs. } (300 - 240) \\ &= \text{Rs. } 60\end{aligned}$$

$$\begin{aligned}\text{Profit \%} &= \frac{\text{Profit}}{\text{C.P}} \times 100 \\ &= \frac{60}{240} \times 100 \\ &= 25\%\end{aligned}$$

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q8

Answer :

Let the cost price of the first box be Rs. x .

Therefore, the cost of the second box will be Rs. $(1300 - x)$

Profit on the first box = 20 %

Loss on the second box = 12 %

SP of the first box = $\text{CP} \left(\frac{\text{gain \%} + 100}{100} \right)$

$$\text{SP} = x \left(\frac{120}{100} \right)$$

$$\text{SP of the first box} = \text{Rs. } \frac{120x}{100} = \text{Rs. } \frac{6x}{5}$$

$$\text{SP of the second box} = \text{CP} \left(\frac{100 - \text{loss \%}}{100} \right)$$

$$\text{S.P of the second box} = \frac{88(1300 - x)}{100} = \text{Rs. } \left(\frac{28600 - 22x}{25} \right)$$

Since S.P of both the box are equal,

$$\frac{6x}{5} = \left(\frac{28600 - 22x}{25} \right)$$

$$150x = 143000 - 110x$$

$$260x = 143000$$

$$x = \frac{143000}{260}$$

$$x = 550$$

Therefore, the cost price of the first box is Rs. 550.

The cost price of the second box will be Rs. $(1300 - 550) = \text{Rs. } 750$

***** END *****