

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q11

Answer:

Let the cost price of one orange be Rs. C, and its selling price be Rs. S $Therefore,\ 16\mathrm{C}=18\mathrm{S}$

$$C = \frac{18}{16} S$$

As cost price is more than the selling price,

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

$$S = \left(\frac{100 - loss \%}{100}\right) C$$

$$\frac{\mathbf{S}}{\mathbf{C}} = \left(\frac{100 - \mathbf{loss} \%}{100}\right)$$

$$\frac{16}{18} = \left(\frac{100 - \log \%}{100}\right)$$

$$\frac{1600}{18} = 100 - \mathbf{loss} \%$$

$$L \cos \% = 100 - \frac{1600}{18}$$

$$L \cos \% = \frac{1800 - 1600}{18}$$

$$= \frac{200}{18} = \frac{100}{9}$$

 $=11\frac{1}{9}$

Therefore, the loss percent is $11\frac{1}{9}\%$.

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q12

Answer:

Let the cost price of the motorcycle for Ravis $h\;be$ Rs. x.

Loss % = 28%

Therefore,
$$SP = CP\left(\frac{100 - Loss \%}{100}\right)$$

$$SP = Rs. \ x\left(\frac{72}{100}\right)$$

Selling price of the motorcycle for $Ravish = Cost\,$ price of the motorcycle for Vineet

Money spent on repair s = Rs. 1680

Therefore, total cost price of the motorcycle for Vineet = Rs. $\left(x\left(\frac{72}{100}\right) + 1680\right)$

Selling price of the motorcycle for Vineet = Rs. 35910

Profit % = 12.5%

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

$$\Rightarrow 35910 = \left(\frac{72x}{100} + 1680\right) \left(\frac{12.5 + 100}{100}\right)$$

$$\Rightarrow 35910 \times 100 \times 100 = (72x + 168000)(112.5)$$

$$\Rightarrow 359100000 = 8100x + 18900000$$

$$\Rightarrow 340200000 = 8100x$$

$$\Rightarrow x = \text{Rs.} 42000$$

Therefore, Ravis h bought the motorcycle for Rs. 42000

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