

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 $Therefore,\ 16{\rm C}=18{\rm S}$

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

As cost price is more than the selling price,

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

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

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

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

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

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

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

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

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

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%

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

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

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

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

$$\Rightarrow 340200000 = 8100x$$

 $\Rightarrow x = \mathrm{Rs.}~42000$

Therefore, Ravis $h\ bought\ the\ motorcycle\ for\ Rs.\ 42000$

********* END *******