Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q12

Answer :

Given,

MP of the cycle = Rs. 840

Discount = 10%

So, $\text{SP} = \text{MP} \times \left(\frac{100-\text{Discount }\%}{100}\right)$

$= 840 \times \left(\frac{100-10}{100}\right)$

= Rs. 756

Now, SP = Rs. 756 and Gain = 26%

So, $\text{CP} = \frac{100}{100+\text{Gain }\%} \times 756$

$= \frac{100}{126} \times 756$

= Rs. 600

Hence, the actual cost *of the cycle* is Rs. 600.

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q13

Answer :

Let *the* CP *of the item* be Rs. x.

Profit = 10%

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

$\text{SP} = x\left(\frac{110}{100}\right)$

$\text{SP} = \text{Rs. } 1.1x$

Again, Profit = SP − CP

Therefore, Profit = Rs. $\left(1.1x - x\right)$

= Rs. $0.1x$

We get,

$0.1x = 56$

x = Rs. 560

Now, *the* advertise d price $= \frac{1.1x}{1-0.23}$

= Rs. $\frac{560 \times 1.1}{0.77}$

= Rs. 800

Therefore, the advertised price of the item is Rs. 800.

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