



Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q14

**Answer :**

Let the original cost price of the item be Rs.  $x$ .

$$MP = x + \frac{40x}{100} = 1.4x$$

$$\text{Discount} = MP - SP$$

$$MP - \frac{\text{Discount \%} \times MP}{100} = SP$$

$$1.4x - \frac{5 \times 1.4x}{100} = 1064$$

$$\frac{1.4x \times 100 - 5 \times 1.4x}{100} = 1064$$

$$\text{So, } x(1.4)(0.95) = 1064$$

$$x = \frac{1064}{(1.4 \times 0.95)}$$

$$= \frac{1064}{1.33}$$

$$= \text{Rs. } 800$$

$$\text{Profit} = \text{Rs. } (1064 - 800)$$

$$= \text{Rs. } 264$$

Thus, the actual profit by the shopkeeper is Rs. 264.

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.2 Q15

**Answer :**

Let the cost price of the pair of earrings be Rs.  $x$ .

$$\text{Profit} = 16\%$$

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

$$= \left( \frac{16 + 100}{100} \right) x$$

$$= \text{Rs. } \frac{116x}{100}$$

$$SP - CP = 48$$

$$\Rightarrow \frac{116x}{100} - x = 48$$

$$\Rightarrow 16x = 4800$$

$$\Rightarrow x = \text{Rs. } 300$$

$$SP = \frac{116x}{100} = \text{Rs. } 348$$

$$MP = \frac{100 \times SP}{100 - \text{Discount \%}}$$

$$= \frac{34800}{75} = \text{Rs. } 464$$

Thus, CP of the pair of earrings = Rs.  $x$  = Rs. 300

SP of the pair of earrings = Rs. 348

MP of the pair of earrings = Rs. 464

\*\*\*\*\* END \*\*\*\*\*

