



Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q23

Answer :

Let the C.P of both the shirts be Rs. x .

C.P = Rs. x

For shirt 1 :

Profit is 4% :

$$\text{Profit \%} = \frac{\text{Profit}}{\text{CP}} \times 100$$

$$\text{Profit} = \frac{4}{100} \times \text{C.P}$$

$$= \text{Rs. } 0.04x$$

$$\text{S.P} = \text{C.P} + \text{Profit}$$

$$= x + 0.04x$$

$$= \text{Rs. } 1.04x$$

For shirt 2 :

Profit = 5% :

C.P = Rs. x

$$\text{Profit} = \frac{5}{100} \times \text{C.P}$$

$$= \text{Rs. } 0.05x$$

$$\text{S.P} = \text{C.P} + \text{Profit}$$

$$= x + 0.05x$$

$$= \text{Rs. } 1.05x$$

It is given that the difference between the profits is Rs. 6

$$\text{So, } 1.05x - 1.04x = 6$$

$$0.01x = 6$$

$$x = \text{Rs. } 600$$

$$\text{Thus, C.P} = \text{Rs. } 600$$

$$\text{S.P of shirt 1} = \text{Rs. } 1.04x$$

$$= \text{Rs. } 1.04 \times 600$$

$$= \text{Rs. } 624$$

$$\text{S.P of shirt 2} = \text{Rs. } 1.05x$$

$$= \text{Rs. } 1.05 \times 600$$

$$= \text{Rs. } 630.$$

***** END *****