

Ans 1 Let the SP of 15 TV's = 100

$$CP \text{ of } 15 \text{ TV's} = \frac{100 \times 15}{12} = 125$$

$$\begin{aligned} \text{Loss} &= CP - SP \\ &= 125 - 100 \\ &= 25 \end{aligned}$$

$$\begin{aligned} \text{Loss \%} &= \frac{25}{125} \times 100 \\ &= 20\% \end{aligned}$$

Ans 2 Let the CP = x

$$\begin{aligned} \text{Profit} &= \frac{10}{100} \times x \\ &= \frac{x}{10} \end{aligned}$$

$$\begin{aligned} 495 &= x + \frac{x}{10} \\ &= \frac{10x + x}{10} \end{aligned}$$

$$\begin{aligned} 495 \times 10 &= 11x \\ x &= \frac{4950}{11} = 450 \end{aligned}$$

$$\begin{aligned} \text{Profit} &= 495 - 450 \\ &= \text{Rs } 45 \end{aligned}$$

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$$\begin{aligned} \text{Ans 3} \quad \text{Total discount offered on suits} &= -20 - 20 + 20 \\ &= -40 + \frac{400}{100} \\ &= -40 + 4 \\ &= -36 \end{aligned}$$

$$\begin{aligned} \text{Discount} &= 36 \times \frac{5000}{100} \\ &= 1800 \end{aligned}$$

$$\begin{aligned} \text{SP} &= \text{Rs } 5000 - \text{Rs } 1800 \\ &= \text{Rs } 3200 \end{aligned}$$

$$\text{Ans 4} \quad \text{Original price} = 12000$$

$$\text{New price} = 13440$$

$$\begin{aligned} \text{Increased price} &= 13440 - 12000 \\ &= 1440 \end{aligned}$$

$$\text{VAT\%} = \frac{1440}{12000} \times 100$$

$$\text{VAT\%} = 12\%$$

Ans 5 If 100% price of stationary item = 195
 Then 2% price of stationary item = $\frac{2}{100} \times 195$
 $= \frac{390}{100} = 3.9$

$$\begin{aligned} SP &= CP + \text{Profit} \\ &= 195 + 3.9 \\ &= 198.9 \end{aligned}$$

Ans 6 Dealers buy sofa set including discount = $\frac{28}{100} \times 500$
 $= 140$

$$\begin{aligned} \text{Do } SP &= CP - \text{Discount} \\ &= 500 - 140 \\ &= 360 \end{aligned}$$

Total expenditure = $360 + 15 = 375$

Dealers sells it for profit of 20%
 $= \frac{20}{100} \times 360 = 72$

$$\begin{aligned} SP &= 360 + 72 \\ &= 432 \end{aligned}$$

$$\begin{aligned} \text{Ans 7. Discount} &= MP - SP \\ &= 650 - 585 \\ &= 65 \end{aligned}$$

$$\begin{aligned} \text{Discount \%} &= \frac{65}{650} \times 100 \\ &= 10\% \end{aligned}$$

$$\begin{aligned} \text{Discount} &= MP - SP \\ &= 1600 - 1200 \\ &= 400 \end{aligned}$$

$$\begin{aligned} \text{Discount \%} &= \frac{400}{1600} \times 100 \\ &= 25\% \end{aligned}$$

Ans 8 b° Let CP = x

$$\text{Profit} = \frac{25}{100} \times x$$

$$= \frac{x}{4}$$

$$5200 = x + \frac{x}{4}$$

$$5200 = \frac{4x + x}{4}$$

$$5200 \times 4 = 5x$$

$$20800 = 5x$$

$$x = \frac{20800}{5}$$

$$x = 4160$$

Ans 9

$$\begin{aligned} \text{Total expenditure} &= 15200 + 300 + 500 \\ &= 16000 \end{aligned}$$

If 100% of air conditioner = Rs 15200

$$\text{Then } 1\% = \text{Rs } \frac{15200}{100}$$

$$= \text{Rs } 152$$

$$\begin{aligned} \text{Then } 15\% \text{ of Rs } 15200 &= 152 \times 15 \\ &= 2280 \end{aligned}$$

If lady wants a profit of 15% she need to sell it at $15200 + 2280$

$$= 17480$$

Ans 10

$$\begin{aligned} \text{She had to pay after discount} &= 5 \times 21000 \\ &= 10500 \end{aligned}$$

$$\begin{aligned} \text{Discount} &= 21000 - 10500 \\ &= 10500 \end{aligned}$$

$$\begin{aligned} & \text{100} \\ & = 19950 \end{aligned}$$

$$= 199500 + 19950$$

$$= 219450$$