

VIII, 11A, P5

$$\begin{aligned} \textcircled{9} \text{ CP of video for manoj} &= \text{Rs } 12000 \\ \text{SP of video for manoj} &= \text{CP for Rahul} \\ &= \frac{100 + P\%}{100} \times \text{CP} \\ &= \frac{110}{100} \times 12000 \\ &= \text{Rs } 13200 \end{aligned}$$

$$\begin{aligned} \text{SP of video for Rahul} &= \text{CP of video for Rakesh} \\ &= \frac{100 - L\%}{100} \times \text{CP} \\ &= \frac{95}{100} \times 13200 \\ &= \text{Rs } 12540 \end{aligned}$$

$$\textcircled{10} \text{ SP of sofa} = \text{Rs } 21600, \text{ gain \%} = 8$$

$$\begin{aligned} \text{CP of sofa} &= \frac{100}{100 + g\%} \times \text{SP} \\ &= \frac{100}{108} \times 21600 \\ &= \text{Rs } 20000 \end{aligned}$$

$$\textcircled{11} \text{ S.P. of watch} = \text{Rs } 11400 \\ \text{loss \%} = 5$$

$$\begin{aligned} \text{CP of watch} &= \frac{100}{100 - L\%} \times \text{SP} \\ &= \frac{100}{95} \times 11400 \quad \begin{array}{l} 120 \\ 2280 \end{array} \\ &= \text{Rs } 12000 \end{aligned}$$