

$$\textcircled{20} \text{ CP of video} = \text{Rs } 20000$$

$$\text{L}\% = 5$$

$$\begin{aligned} \text{SP} &= \frac{100 - \text{L}\%}{100} \times \text{CP} \\ &= \frac{95}{100} \times 20000 \\ &= \text{Rs } 19000 \end{aligned}$$

$$\text{CP of TV} = \text{Rs } 30000$$

$$\text{g}\% = 8$$

$$\begin{aligned} \text{SP} &= \frac{100 + \text{g}\%}{100} \times \text{CP} \\ &= \frac{108}{100} \times 30000 \\ &= \text{Rs } 32400 \end{aligned}$$

$$\begin{aligned} \text{TCP} &= 20000 + 30000 \\ &= \text{Rs } 50000 \end{aligned}$$

$$\begin{aligned} \text{TSP} &= 19000 + 32400 \\ &= \text{Rs } 51400 \end{aligned}$$

$$\text{Profit \%} = \frac{\text{TSP} - \text{TCP}}{\text{TCP}} \times 100$$

$$= \frac{51400 - 50000}{50000} \times 100$$

$$= \frac{1400}{500}$$

$$= 2.8$$