

20 cont

$$\begin{aligned}
 \text{loss \%} &= \frac{TCP - TSP}{TCP} \times 100 \\
 &= \frac{50000 - \frac{8350000}{171}}{50000} \times 100 \\
 &= \frac{8550000 - 8350000}{50000 \times 171} \times 100 \\
 &= \frac{200000}{500 \times 171} \\
 &= 2.33
 \end{aligned}$$

(21)

let SP of 1 orange = Re 1

loss = SP of 4 oranges = Rs 4

SP of 36 oranges = Rs 36

$$\begin{aligned}
 \text{CP of 36 oranges} &= \text{SP} + \text{loss} \\
 &= 36 + 4 \\
 &= \text{Rs } 40
 \end{aligned}$$

$$\begin{aligned}
 \text{loss \%} &= \frac{40 - 36}{40} \times 100 \\
 &= \frac{4}{40} \times 100 \\
 &= 10
 \end{aligned}$$

$$\begin{aligned}
 \text{P\%} &= \frac{P}{CP} \times 100 \\
 &= \frac{1}{7} \times 100 \\
 &= 14\frac{2}{7}
 \end{aligned}$$

(22) let SP of 1 dz pencils = Re 1

SP of 8 dz pencils = Rs 8

$$\begin{aligned}
 \text{Profit} &= \text{SP of 1 dz pencils} = \text{Re } 1 \\
 \text{CP of 8 dz pencils} &= \text{SP} - P \\
 &= 8 - 1 \\
 &= \text{Rs } 7
 \end{aligned}$$