Work Sheet Solution

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1.Try yourself

2.Cost of 1 quintal of rice = Tk. 250 Cost of 600 quintals of rice = 600×250 = Tk. 150000 Overhead expenses = Tk. 1000 Total CP = Tk. (150000 + 1000) = Tk. 151000 Profit % = (Profit/CP) × 100 or,7 = (P/151000) × 100 or, P = 1510 × 7 = Tk. 10570 Profit = Tk. 10570 So, SP = CP + profit = Tk. (151000 + 10570) = Tk. 161570 3.Try yourself 4. Cost of 1 dozen roses = Tk. 2

Number of roses bought by the florist = 100 dozensThus, cost price of $100 \text{ dozen roses} = 2 \times 100 = \text{Tk}$. 200

Roses left after discarding the mutilated ones = 80 dozens

Calculating the price at which the florist should sell the 80 dozen roses in order to make a profit of 20%, we have

 $\frac{\frac{\text{Profit \%}}{100} = \frac{\text{SP-CP}}{\text{CP}}}{\frac{20}{100} = \frac{\text{SP-200}}{200}}$ SP = Rs. 240

Therefore, the SP of the roses should be Tk. $\frac{240}{80}$ = Tk. 3 per dozen

5. Cost price of an almirah = Tk. 13600 Transportation cost = Tk. 400 Total cost price = Tk. (13600 + 400) = Tk. 14000 Selling price = Tk. 16800 Now, SP > CP Gain = SP - CP = (16800 - 14000) = Tk. 2800

$$Gain \% = \left(\frac{Gain}{CP} \times 100\right)\%$$
$$= \left(\frac{2800}{14000} \times 100\right)\%$$
$$= \frac{2800}{140}\%$$
$$= 20\%$$

6.Let the CP of 1 orange be Tk. x.
∴ CP of 36 oranges = Tk. 36x
Let SP of orange be Tk. y.
∴ SP of 36 oranges = Tk. 36y

Loss = SP of 4 oranges = 4y (given)

We know: Loss = CP - SP \Rightarrow 4y = 36x - 36y \Rightarrow 4y + 36y = 36x \Rightarrow 40y = 36x \Rightarrow 10y = 9x \Rightarrow y = $\frac{9}{10}x$

$$egin{aligned} \mathrm{Loss}\,\% &= \,\left(rac{\mathrm{Loss}}{\mathrm{CP}} imes 100 \,
ight) \% \ &= \left(rac{4y}{36x} imes \, 100 \,
ight) \% \ &= \left(rac{4 imes 9x}{36x imes 10} imes \, 100
ight) \% \ &= \, 10\% \end{aligned}$$

Loss% = 10%