



Exercise 11A

(iii) SP = Rs. 8510

Loss = 8%

$$\begin{aligned}\text{CP} &= \left\{ \frac{100}{(100 - \text{Loss \%})} \times \text{SP} \right\} \\&= \left\{ \frac{100}{(100 - 8)} \times 8510 \right\} \\&= \frac{851000}{92} \\&= \text{Rs. 9250}\end{aligned}$$

(iv) SP = Rs. 5600

Loss = $6\frac{2}{3}\%$ = $\frac{20}{3}\%$

$$\begin{aligned}\text{CP} &= \left\{ \frac{100}{(100 - \text{Loss \%})} \times \text{SP} \right\} \\&= \left\{ \frac{100}{\left(100 - \frac{20}{3}\right)} \times 5600 \right\} \\&= \left\{ \frac{300}{280} \times 5600 \right\} \\&= \frac{168000}{28} \\&= \text{Rs. 6000}\end{aligned}$$

Q4

Answer :

Cost price of an almirah = Rs. 13600

Transportation cost = Rs. 400

Total cost price = Rs. (13600 + 400) = Rs. 14000

Selling price = Rs. 16800

Now, SP > CP

Gain = **SP** - **CP** = (16800 - 14000) = Rs. 2800

$$\text{Gain \%} = \left(\frac{\text{Gain}}{\text{CP}} \times 100 \right) \%$$

$$= \left(\frac{2800}{14000} \times 100 \right) \%$$

$$= \frac{2800}{140} \%$$

$$= 20\%$$

Q5

Answer :

Cost price of the house = Rs. 765000

Cost of repairing the house = Rs. 115000

Total Cost price = (765000 + 115000) = Rs. 880000

Ravi sold it at a gain of 5%.

$$\text{SP} = \left\{ \frac{(100 + \text{gain \%})}{100} \times \text{CP} \right\}$$

$$\begin{aligned}
&= \left\{ \frac{(100 + 5)}{100} \times 880000 \right\} \\
&= \frac{105}{100} \times 880000 \\
&= \text{Rs. } 924000
\end{aligned}$$

He gets Rs. 924000.

Q6

Answer :

CP of 12 lemons (dozen) = Rs. 25

CP of one lemon = Rs. $\frac{25}{12}$

CP of five lemons = $5 \times \frac{25}{12} = \frac{125}{12} = \text{Rs. } 10.42$

SP of five lemons = Rs. 12 (given)

Gain = SP - CP = (12 - 10.42) = Rs 1.58

Gain% = $\left(\frac{\text{Gain}}{\text{CP}} \times 100 \right) \%$

= $\left(\frac{1.58}{10.42} \times 100 \right) \%$

= 15.2%

Q7

Answer :

Let the cost price of the pen be Re 1.

Cost price of 12 pens = Rs 12

SP of 12 pens = CP of 15 pens = Rs 15

Gain = SP - CP = Rs (15 - 12) = Rs 3

$$\text{Gain}\% = \left(\frac{\text{Gain}}{\text{CP}} \times 100 \right)\%$$

$$= \left(\frac{3}{12} \times 100 \right)\%$$

$$= 25\%$$

$$\text{Gain}\% = 25\%$$

Q8

Answer :

Let the cost price of one spoon be Re 1.

CP of 16 spoons = Rs 16

SP of 16 spoons = CP of 15 spoons = Rs 15

Loss = CP - SP = (16 - 15) = Re 1

$$\text{Loss}\% = \left(\frac{\text{Loss}}{\text{CP}} \times 100 \right)\%$$

$$= \left(\frac{1}{16} \times 100 \right)\%$$

$$= 6.25\%$$

$$\text{Loss}\% = 6.25\%$$

***** END *****