



Simple Interest Ex 12.1 Q11

Answer :

$$CP = \text{Rs. } 120$$

$$\text{Profit \%} = 10$$

We now that

$$\begin{aligned} SP &= \{(100 + \text{profit \%})/100\} \times CP \\ &= \{(100 + 10)/100\} \times 120 \\ &= \{(110/100)\} \times 120 = 1.1 \times 120 = \text{Rs. } 132 \end{aligned}$$

Simple Interest Ex 12.1 Q12

Answer :

Cost price of 50 dozens bananas that Harish purchased, CP = Rs. 135

Bananas left after removing 5 dozen rotten bananas = 45 dozens

Effective CP of one dozen bananas = Rs. $135/45$ = Rs. 3

Calculating the price at which Harish should sell each dozen bananas to make a profit of 20% (or $1/5$), we get

$$\text{Profit} = \text{Gain}/CP = (SP - CP)/CP$$

$$\frac{1}{5} = \frac{SP - 3}{3}$$

$$SP = \text{Rs. } 3.60$$

Harish should sell the bananas at Rs. 3.60 a dozen in order to make a profit of 20%.

***** END *****