

Simple Interest Ex 12.1 Q17

Answer:

Cost of 1 dozen roses = Rs. 2 Number of roses bought by the florist = 100 dozens Thus, cost price of 100 dozen roses = $2 \times 100 = Rs. 200$

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

Therefore, the SP of the roses should be Rs. 240/80 = Rs. 3 per dozen.

Simple Interest Ex 12.1 Q18

Answer:

Let CP = Rs. x SP = Rs. 240 Let profit be Rs. P.

Now, profit % = 20% Since Profit % = (Profit/CP) × 100 \Rightarrow 20 = (P/x) × 100 \Rightarrow P = 20x/100 = x/5

Profit = SP - CP = 240 - x \Rightarrow P = 240 - x \Rightarrow x/5 = 240 - x \Rightarrow 240 = x + x/5 \Rightarrow 240 = 6x/5 \Rightarrow x = 1200/6 = 200 So, CP = Rs. 200

New SP = Rs. 275 and CP = Rs. 200 Profit % = $\{(SP - CP)/CP\} \times 100 = \{(275 - 200)/200\} \times 100 = (75/200) \times 100 = 7500/200 = 37.5\%$

********* END *******