



Simple Interest Ex 12.1 Q13

Answer :

Cost of one dozen eggs = Rs. 6.40

Cost of 50 dozen eggs = 50×6.40 = Rs. 320

Total number of eggs = 50×12 = 600

Number of eggs left after removing the broken ones = $600 - 20$ = 580

SP of 1 egg = 55 paise

So, SP of 580 eggs = 580×55 = 31900 paise = Rs. 31900/100 = Rs. 319

Loss = CP - SP = Rs. (320-319) = Re. 1

Loss % = $(\text{Loss}/\text{CP}) \times 100 = (1/320) \times 100 = 0.31\%$

Simple Interest Ex 12.1 Q14

Answer :

Cost of eggs per dozen = Rs. 8.40

Cost of 1 egg = $8.40/12$ = Rs. 0.7

Cost of 400 eggs = 400×0.7 = Rs. 280

Calculating the price at which Jyotsana should sell the eggs to earn a profit of 15%, we get
15% of 280 + 280

= $\{(15/100) \times 280\} + 280 = \{4200/100\} + 280 = 42 + 280$ = Rs. 322

So, Jyotsana must sell the 400 eggs for Rs. 322 in order to earn a profit of 15%.

Therefore, the SP per one hundred eggs = $322/4$ = Rs. 80.50.

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