

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q3

## Answer:

C. P of 9 apples = Rs 9.60

$$\therefore$$
 C. P of 1 apple = Rs  $\frac{9.60}{9}$  = Rs  $\frac{16}{15}$ 

S. P of 11 apples = Rs 12

$$\therefore$$
 S. P of 1 apple = Rs  $\frac{12}{11}$ 

Clearly, S.P of 1 apple > C.P of 1 apple So, we get profit on selling apples

$$\begin{aligned} & \text{Gain} \% = \left(\frac{\text{gain} \times 100}{\text{C.P.}}\right) \\ &= \left(\frac{\frac{12}{11} - \frac{\text{in}}{15}}{\frac{\text{in}}{15}}\right) \times 100 \\ &= \left(\frac{12 \times 15 - 16 \times 11}{15 \times 11}\right) \times \frac{15}{16} \times 100 \\ &= \left(\frac{180 - 176}{11 \times 16}\right) \times 100 \\ &= \left(\frac{4}{11 \times 16}\right) \times 100 \\ &= 2\frac{3}{11} \% \end{aligned}$$

Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.1 Q4

Answer:

Let the cost price of one article be Rs. C and the selling price be Rs. S  $Therefore,\ 10{\rm C}=9{\rm S}$ 

$$C = \frac{9}{10} S$$

So, the cost price is less than the selling price.

S. P. = 
$$\left(\frac{100 + P \operatorname{rofit} \%}{100}\right)$$
C. P

$$\mathbf{S} = \left(\frac{100 + P \operatorname{rofit} \%}{100}\right) \mathbf{C}$$

$$\frac{S}{C} = \left(\frac{100 + P \operatorname{rofit} \%}{100}\right)$$

$$\frac{10}{9} = \left(\frac{100 + P \operatorname{rofit} \%}{100}\right)$$

$$\frac{1000}{9}=100+P\,\mathrm{rofit}\,\%$$

$$\frac{1000}{9} - 100 = P \text{ rofit } \%$$

$$P \operatorname{rofit} \% = \frac{1000 - 900}{9}$$

$$=11\frac{1}{9}$$

Therefore, the required profit percent is  $11\frac{1}{9}\%$ .

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*