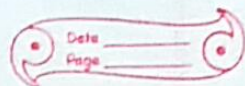


PROFIT, LOSS AND DISCOUNT8CA)

$$1) \text{ CP of 10 notebooks} = ₹40$$

$$\text{ SP of 10 note books} = 4.75 \times 10$$

$$= ₹47.50$$

$$\text{Gain} = \text{SP} - \text{CP}$$

$$= ₹47.50 - ₹40$$

$$= ₹7.50$$

$$\text{Gain \%} = \frac{\text{Gain}}{\text{CP}} \times 100 = \frac{7.50}{40} \times 100 = \frac{750}{40}$$

$$= \frac{75}{4} = 18 \frac{3}{4} \%$$

$$2) \text{ Let the number of oranges bought} = 12$$

$$[\text{L.C.M of } 4, 3 = 12]$$

$$\text{CP of orange} = ₹ \frac{3}{4} \times 12 = ₹9$$

$$\text{SP of orange} = ₹ \frac{4}{3} \times 12 = ₹16$$

$$\text{Profit} = 16 - 9$$

$$= ₹7$$

$$\text{Profit \%} = \frac{\text{Profit}}{\text{CP}} \times 100 = \frac{7}{9} \times 100$$

$$= \frac{700}{9} = 77 \frac{7}{9} \% \quad (\text{Ans})$$

3) Let the number of articles bought = 60
 $\boxed{\text{L.C.M of } 15, 12 = 60}$

$$\text{CP of articles} = ₹ \frac{112.50}{15} \times 60$$

$$= ₹ \frac{112.50 \times 60}{15} = 112.50 \times 4 = ₹ 450.00$$

$$\text{SP of articles} = ₹ \frac{108}{12} \times 60$$

$$= ₹ 108 \times 5 = ₹ 540$$

i. $\text{Gain} = \text{SP} - \text{CP} = ₹ 540 - ₹ 450$
 $= ₹ 90$

$$\text{Gain \%} = \frac{\text{Gain}}{\text{CP}} \times 100$$

$$= \frac{90}{450} \times 100 = \frac{100}{5} = 20\% \quad (\underline{\underline{Ans}})$$