



Solution - 01 :-

(i) we have,  
Cost price = RS 1200,

Selling price = RS 1350,

Profit | Loss = ?

Clearly  $S.P > C.P$ . so, there will be Profit  
Given by

$$\begin{aligned} \text{Profit} &= S.P - C.P \\ &= RS 1350 - RS 1200 \\ &= RS 150 \end{aligned}$$

(ii) we have,

Cost price = RS 1270

Selling price = RS 1250

Clearly  $S.P < C.P$  so, there will be loss,  
given by

$$\begin{aligned} \text{Loss} &= C.P - S.P \\ &= 1270 - 1250 = RS 20. \end{aligned}$$

(iii) we have,

Cost price = RS 720.

Selling price = ?

Profit = RS 55.50

Profit =  $S.P - C.P$  [  $Pf = S.P - C.P$  ]

Profit =  $S.P - C.P$

$$C.P = 720 + 55.50 = 775.50$$

(iv) we have,

$C.P = ?$

$S.P = RS 1254.$

Loss = RS 32

Loss =  $C.P - S.P$

$$C.P = S.P + \text{Loss} \quad \square$$

$$C.P = 1254 + 32$$

$$C.P = RS 1286$$

Solution - 02 :-

(i) we have,

$C.P = RS 1265$

$S.P = RS 1253$

$$\begin{aligned} \text{Loss} &= C.P - S.P \\ &= RS 1265 - RS 1253 \\ &= RS 12. \end{aligned}$$

(ii) we have,

$C.P = RS \dots$

$S.P = RS 450$

Profit = RS 150

profit =  $S.P - C.P$

$$150 = S.P - C.P$$

$$C.P = 450 - 150$$

$$C.P = RS 300.$$

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(iii) we have.

$$C.P = Rs 3355$$

$$S.P = Rs 7355$$

Clearly  $S.P > C.P$ , so there will be Profit given by.

$$\begin{aligned} \text{profit} &= S.P - C.P \\ &= Rs 7355 - Rs 3355 \\ &= Rs 4,000. \end{aligned}$$

(iv) we have.

$$C.P = Rs \dots$$

$$S.P = Rs 2390$$

$$\text{Loss} = Rs 5.50$$

$$\text{Loss} = C.P - S.P$$

$$C.P = \text{Loss} + S.P$$

$$= 5.5 + 2390$$

$$= 2395.5$$

$$C.P = 2395.5$$

Solution-03:-

(i) we have,

$$C.P = Rs 4560$$

$$S.P = Rs 5,000$$

clearly,  $S.P > C.P$ , so there will be Profit

Percentage is given by

$$\text{Profit} = S.P - C.P$$

$$\text{Profit} = Rs 5,000 - Rs 4,560$$

$$= Rs 440$$

$$\text{Profit \%} = \frac{\text{Profit}}{C.P} \times 100$$

$$= \frac{440}{4560} \times 100$$

$$= 9.65\%$$

(ii) we have

$$C.P = Rs 2600, S.P = 2470$$

clearly,  $S.P < C.P$ , so there will be loss, is

Given by

$$\text{Loss} = C.P - S.P$$

$$= 2600 - 2470 = Rs 130$$

$$\text{Loss \%} = \frac{\text{Loss}}{C.P} \times 100 = \frac{130}{2600} \times 100 = 5\%$$

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Solution-3:-

(ii) we have.

$$C.P = RS 332, S.P = 350$$

Here  $S.P > C.P$ , so these will be Profit %.

$$Profit = S.P - C.P$$

$$Profit + C.P = S.P$$

$$Profit = 350 - 332 = RS.18.$$

$$Profit\% = \frac{Profit}{C.P} \times 100$$

$$= \frac{18}{332} \times 100.$$

∴

$$= 5.42\%$$

(v) we have.

$$C.P = RS 1500, S.P = RS 1500$$

$$\text{Here, Profit} = S.P - C.P \quad [ \because C.P = S.P ]$$

$$= 1500 - C.P$$

$$= 1500 - 1500$$

$$= 0$$

$$Profit\% = 0.$$

Solution-4:-

$$(i) C.P = RS 4,000$$

$$Gain = RS 40$$

$$Gain = S.P - C.P$$

$$Gain + C.P = S.P$$

$$S.P = 4000 + 40$$

$$S.P = 4,040.$$

$$Gain\% = \frac{Gain}{C.P} \times 100$$

$$= \frac{40}{4000} \times 100$$

$$= 1\%$$

(ii) we have

$$S.P = RS 1272, Loss = 328$$

$$Loss = C.P - S.P$$

$$C.P = Loss + S.P$$

$$= 1272 + 328$$

$$= 1600$$

$$Loss\% = \frac{328}{1600} \times 100$$

$$= 20.5\%$$

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$$4.(ii) S.P = RS 1820$$

$$\text{gain} = RS 420$$

$$C.P = S.p - \text{gain}$$

$$= 1820 - 420$$

$$= 1400$$

$$\text{gain}\% = \frac{420}{1400} \times 100$$

$$= 30\%$$

Solution-6:

We have,

grain merchant sold = 600 quintals

$$\text{profit}\% = 7\%$$

quintal rice cost = RS 250

$$C.P = 600 \times \text{quintal rice cost} + RS 1000$$

$$= 600 \times 250 + RS 1000$$

$$= 150000 + RS 1000$$

$$= 1,51,000$$

$$\text{Profit}\% = \frac{\text{Profit}}{C.P} \times 100$$

$$\frac{7 \times 1,51,000}{100} = \text{Profit}$$

$$\Rightarrow \text{profit} = 10,570$$

$$\therefore \text{Selling price} = 1,51,000 + 10,570 = 1,61,570$$

Solution-07:

$$\text{Cost price for 4 dozen Pencils} = RS 10.80 \times 4$$

$$= RS 43.20$$

$$\text{Selling price} = 9$$

$$\text{Selling price} = 48 \times 80 \text{ paise}$$

$$= RS 38.40$$

$$[4 \text{ dozen} = 4 \times 12 = 48]$$

$$\text{Loss} = C.P - S.P \quad [C.P > S.P]$$

$$= 43.20 - 38.40$$

$$= 4.8$$

$$\text{Loss}\% = \frac{4.8}{43.20} \times 100$$

$$= \frac{100}{9}\%$$

$$\text{Loss}\% = \frac{100}{9}\%$$

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Solution - 08:-

We have

Oranges buys at ₹6 per dozen

$$\text{Cost Price one Orange} = \frac{₹6}{12}$$

$$\text{Cost price for 5 oranges} = \frac{₹6}{12} \times 5 \quad [\because \text{dozen} = 12]$$

Selling price for 5 oranges = ₹13.

$$\text{Gain} = \text{S.P} - \text{C.P} \quad [\text{S.P} > \text{C.P}]$$

$$= \frac{₹6 \times 5}{12} + 13$$

$$= \frac{156 - 130}{12}$$

$$= \frac{₹26}{12}$$

$$\text{Gain\%} = \frac{\text{Gain}}{\text{C.P}} \times 100$$

$$= \frac{\frac{₹26}{12}}{\frac{₹6 \times 5}{12}} \times 100$$

$$= \frac{100}{5} \% = 20\%$$

Solution - 09:-

We have

Purchased amount = ₹3,65,000

Repaired Price = ₹1,35,000

Cost Price = purchased price + Repair

$$= ₹3,65,000 + ₹1,35,000$$

$$= ₹5,00,000$$

Selling price = ₹5,50,000.

$$\text{Gain} = \text{S.P} - \text{C.P} \quad [\text{S.P} > \text{C.P}]$$

$$= ₹5,50,000 - ₹5,00,000$$

$$\text{Gain\%} = \frac{50,000}{5,00,000} \times 100$$

$$= \frac{100}{10} \%$$

$$= 10\%$$

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Solution-10:-

we have,

$$\text{Cost price} = 840$$

$$\text{Selling price} = \text{RS } 910.$$

$$\begin{aligned} \text{Gain} &= 910 - 840 && [\text{S.P} > \text{C.P}] \\ &= \text{RS } 70. \end{aligned}$$

$$\begin{aligned} \text{Gain \%} &= \frac{70}{840} \times 100 && \left[ \frac{\text{Gain}}{\text{C.P}} \times 100 = \text{Gain \%} \right] \\ &= \frac{25}{3} \%. \end{aligned}$$

Solution-11:-

we have, Cost price = RS 120.

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

$$\frac{\text{Gain}}{\text{C.P}} \times 100 = 10$$

$$\text{Gain} = \frac{120 \times 10}{100}$$

$$\text{Gain} = \text{RS } 12$$

$$\begin{aligned} \text{S.P} &= \text{C.P} + \text{Gain} \\ &= 120 + 12 \\ &= 132. \end{aligned}$$

Solution-12:-

we have,

$$\text{cost price for 50 bananas} = \text{RS } 135$$

$$\text{cost price for one banana} = \frac{135}{50}$$

$$\text{Profit \%} = \frac{\text{Profit}}{\text{C.P}} \times 100$$

$$20 = \frac{\text{Profit}}{\frac{135}{50}} \times 100$$

$$\begin{aligned} [\because \text{No of bananas sold} &= \text{Total} \\ &\quad \text{rotten} \\ &= 50 - 5 \\ &= 45 \text{ dozen bananas}] \end{aligned}$$

$$\text{cost price for 45 dozen bananas} = \frac{135}{50} \times 45$$

$$\text{Profit} = \frac{20 \times 135 \times 45}{50} \times 100$$

$$= \frac{270 \times 45}{50}$$

$$= 24.3$$

$$\begin{aligned} \text{selling price} &= \text{C.P} + \text{Gain} \\ &= 135 + 24.3 = 159.3 \end{aligned}$$

$$\text{price per dozen} = \frac{159.3}{45} = 3.6$$

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Solution-13:-

$$\begin{aligned} \text{Cost price} &= \text{No. of dozen eggs} \times \text{dozen cost} \\ &= 50 \times 6.4 \\ &= \text{RS } 320 \end{aligned}$$

$$\begin{aligned} \text{selling price} &= \text{Total no of eggs cost} - \text{defective eggs cost} \\ &= 50 \times 12 \times 55 \text{ paise} - 20 \times 55 \text{ paise} \\ [\because 1 \text{ dozen} &= 12 \text{ eggs}] \end{aligned}$$

$$\begin{aligned} \text{S.P} &= \text{RS } \frac{600 \times 55}{100} - \frac{20 \times 55}{100} \quad [\because 1 \text{ Paise} = \frac{1}{100} \text{ RS}] \\ &= 330 - 11 \\ &= 319 \end{aligned}$$

C.P > S.P

$$\begin{aligned} \therefore \text{loss} &= \text{C.P} - \text{S.P} \\ &= 320 - 319 = 1 \end{aligned}$$

$$\begin{aligned} \text{loss \%} &= \frac{\text{loss}}{\text{C.P}} \times 100 \\ &= \frac{100}{320} = \frac{5}{16} \% \text{ loss} \end{aligned}$$

Solution-14:-

we have.

400 eggs cost price = ?

1 dozen eggs → 8.40.

$\frac{400}{12}$  dozen eggs → x

[∵ 1 dozen = 12 eggs]

Let 400 eggs cost price say 'x'

$$\begin{aligned} x &= \frac{400 \times 8.40}{12} \\ &= \text{RS } 280. \end{aligned}$$

$$\begin{aligned} \text{cost price for one egg} &= \frac{8.40}{12} \\ &= .70 \text{ paise.} \end{aligned}$$

$$\begin{aligned} \text{cost price for 100 eggs} &= 100 \times 70 \text{ paise} \\ &= \text{RS } 70. \end{aligned}$$

$$\text{Profit \%} = \frac{\text{Profit}}{\text{C.P}} \times 100$$

$$15 = \frac{\text{Profit}}{70} \times 100$$

$$\Rightarrow \text{Profit} = \frac{15 \times 70}{100} = \text{RS } 10.5$$

$$\text{selling price for 100 eggs} = 70 + 10.5 = \text{RS } 80.5$$

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