

## Solution

**S1. Ans.(c)**

**Sol.** Let the list price = 100

$$\begin{aligned} \text{Cost price to retailer} &= 100 \times \frac{80}{100} \\ &= 80 \end{aligned}$$

$$\begin{aligned} \text{Selling price of retailer} &= 100 \times \frac{95}{100} \\ &= 95 \end{aligned}$$

According to the question,

$$95 \rightarrow 38$$

$$1 \rightarrow \frac{35}{95}$$

$$80 \rightarrow \frac{38 \times 80}{95}$$

$$= 32$$

$$\text{Required profit} = 38 - 32 = 6$$

**S2. Ans.(a)**

$$\begin{aligned} \text{Sol. Cost price of labour} &= \frac{900}{9} \times 4 \\ &= 400 \end{aligned}$$

$$\text{Profit} = \frac{400 \times 20}{100} = 80$$

$$\begin{aligned} \text{Required marked price} &= 900 + 80 \\ &= 980 \end{aligned}$$

**S3. Ans.(b)**

**Sol.**

CP	SP
5	4 ×3
5	6 ×2
15	12
10	12
25	24

$$\text{Clearly we can see loss} = \frac{1}{24}$$

$$\text{Required answer} = \left(\frac{2400}{24}\right) \times 2$$

$$= 200 \text{ loss}$$

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**S4. Ans.(c)**

$$\text{Sol. CP per kg} = \frac{40 \times 100}{90}$$

$$\text{Loss per kg} = \frac{400}{9} - 40$$

$$= \frac{40}{9}$$

For 1 kg loss is Rs. 40/9

For Rs. 80, Required answer

$$= \frac{80}{40} \times 9$$

$$= 18 \text{ kg}$$

**S5. Ans.(d)**

$$\text{Sol. SP of 1st TV} = 3450$$

$$\text{CP of 1st TV} = \frac{3450}{115} \times 100$$

$$= 3000$$

$$\text{Profit} = 3450 - 3000$$

$$= 450$$

This profit is same as the loss incurred in selling second T.V set.

According to the question,

$$10\% \rightarrow 450$$

$$100\% \rightarrow 4500$$

$$\text{Required answer} = 4500$$

**S6. Ans.(b)**

**Sol.** According to the question,

$$4\% \rightarrow 200$$

$$100\% \rightarrow 5000$$

$$\text{Required answer} = 5000 \times \frac{106}{100}$$

$$= 5300$$

**S7. Ans.(c)**

**Sol.** First at a loss of 20%

Second at a profit of 25%

Overall he had a profit of

$$= \frac{90}{900} \times 100$$

$$= 10\%$$

By allegation

$$\begin{array}{cc} -20\% & +25\% \end{array}$$

$$+10\%$$

$$\begin{array}{cc} 15 & 30 \end{array}$$

$$\begin{array}{ccc} 1 & : & 2 \end{array}$$

$$\text{Required answer} = 900 \times \frac{1}{3}$$

$$= 300$$

**S8. Ans.(a)**

$$\text{Sol. Intital CP} = \frac{5750}{115} \times 100$$

$$= 5000$$

$$\text{New CP} = 5000 \times \frac{130}{100}$$

$$= 6500$$

$$\text{New SP} = 5750 \times \frac{120}{100}$$

$$= 6900$$

Required profit %

$$= \left( \frac{6900 - 6500}{6500} \right) \times 100$$

$$= 6\frac{2}{13}\%$$

**S9. Ans.(a)**

$$\text{Sol. Profit \% on later SP} = \frac{30}{200} \times 100$$

$$= 15\%$$

Required answer = 15% - 10%

$$= 5\%$$

**S10. Ans.(a)**

$$\text{Sol. CP of B} = 10000 \times \frac{115}{100}$$

$$= 11500$$

SP of A when he buys it from B again

$$= 11500 \times \frac{85}{100}$$

$$= 9775$$

$$\text{Required gain \%} = \frac{(10000 - 9775)}{10000} \times 100$$

$$= 2.25\%$$

**S11. Ans.(a)**

$$\text{Sol. Total CP per kg} = \frac{50 \times 10 + 40 \times 12}{(50 + 40)}$$

$$= \frac{980}{90}$$

$$\text{Profit} = 11 - \frac{98}{9}$$

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

$$\text{Profit \%} = \frac{\frac{1}{9}}{\frac{98}{90}} \times 100 = \frac{100}{98}\%$$



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**S12. Ans.(d)**

**Sol.** Total selling price =  $36 \times \frac{9}{8}$   
 = 40.5

Per piece SP =  $\frac{40.5}{144}$   
 = 0.28125 ~ 28 paise

**S13. Ans.(b)**

**Sol.** 10% → 6.2 kg

100% → 62 kg

Required answer =  $\frac{279}{62}$

= 4.5

**S14. Ans.(c)**

**Sol.** CP = 400

SP =  $400 \times \frac{120}{100}$   
 = 480

MP =  $480 \times \frac{100}{96}$

= 500

Required answer = 500

**S15. Ans.(c)**

**Sol.** CP = 400

MP =  $400 \times \frac{180}{100}$

= 720

SP =  $720 \times \frac{85}{100}$

= 612

Profit %  $\left( \frac{612 - 400}{400} \right) \times 100$

=  $\frac{212}{400} \times 100$

= 53%

**S16. Ans.(b)**

**Sol.** S.P of VCP player = Rs. 1950

Profit = 50%

So, C.P =  $\frac{1950}{1.5}$  = Rs. 1300

In order to gain profit of 30%

S.P = 1300 (1.3)

= 1690



**S17. Ans.(c)****Sol.** Let the cost price be Rs.  $x$ 

According to the question,

$$60 - x = x - 42$$

$$2x = 102$$

$$x = 51$$

Thus, C.P = Rs. 51

**S18. Ans.(d)****Sol.** C.P of shirt =  $\frac{3}{4}$  list price

Let the list price be Rs. 40

So, C.P = 30

According to the question,

$$S.P = 40 (1.5)$$

$$= 60$$

$$\text{gain} = 30$$

$$\% \text{ gain} = 100\%$$

**S19. Ans.(a)****Sol.** Gain = S.P - C.P

According to the question,

$$100S = 250S - 250C$$

$$250C = 150S$$

$$5C = 3S$$

$$\frac{C}{S} = \frac{3}{5}$$

$$\text{Percentage profit} = \frac{2}{3} \times 10$$

$$= 66.66\%$$

**S20. Ans.(b)****Sol.** Let the C.P be Rs.  $x$ .So, S.P =  $(1.1) x$ 

According to the question.

$$x (1.25) = (1.10) x + 45$$

$$0.15x = 45$$

$$x = 300$$

Then, C.P = Rs. 300

**S21. Ans.(c)****Sol.** Cost price of 1 orange

$$= \text{Rs. } \frac{10}{200} = \text{Rs. } \frac{1}{20}$$

$$\text{SP of 1 orange} = \text{Rs. } \left( \frac{1}{20} + \frac{1}{3} \cdot \frac{1}{20} \right)$$

$$= \text{Rs. } \frac{1}{15}$$

So, he should sell 15 oranges in a rupee to make a profit of 33.33%.

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**S22. Ans.(d)**

**Sol.** S.P = Rs. 450

Loss = 10%

$$C.P = \frac{450}{0.9} = \text{Rs. } 500$$

Thus, he should sell at Rs. 500.

**S23. Ans.(c)**

**Sol.** CP of 1 book = Rs. 15

SP of 1 book in order to gain 25% profit

= Rs. 18.75

Required number of Books

$$= \frac{225}{18.75} = 12$$

**S24. Ans.(d)**

**Sol.** 15C = 9S

$$\frac{C}{S} = \frac{9}{15}$$

$$\frac{C}{S} = \frac{3}{5}$$

$$\text{Profit \%} = \frac{2}{3} = 66.66\%$$

**S25. Ans.(b)**

**Sol.** The shopkeeper selling 1000 m cloth but he is getting money only for 900 m cloths.

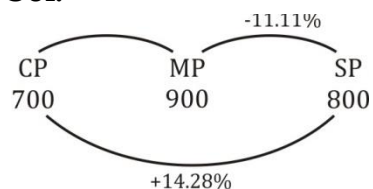
So, it is less for shopkeeper

$$\text{Loss} = \frac{100}{1000}$$

Loss % = 10%

**S26. Ans.(b)**

**Sol.**



Let, CP = 700

So, SP = 800

$$MP = \frac{800}{\left(1 - \frac{1}{9}\right)}$$

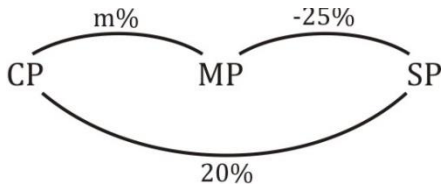
= 900

$$\text{Mark up \%} = \frac{200}{700} \times 100$$

= 28.56%

S27. Ans.(a)

Sol.



The successive of m% and d% will give profit/loss percentage.

So,

$$m - 25 - \frac{m \times 25}{100} = 20$$

$$\frac{3}{4}m = 45$$

$$m\% = 60\%$$

S28. Ans.(d)

Sol. Cannot be determined.

Without knowing profit percentage.

S29. Ans.(b)

Sol. Let the M.P of 1 pen = Re 1

M.P of 18 pens = Rs 18

According to the question,

Retailer's C.P of 20 pens = Rs 18

He sold them of M.P.

So, S.P of 20 pens = Rs. 20

$$\% \text{ profit} = \frac{2}{18} \times 100$$

$$= 11.11\%$$

S30. Ans.(a)

Sol. Sum of C.P of two cars = Rs. 1,00,000

1<sup>st</sup> sold at → 20% profit

2<sup>nd</sup> sold at → -20%

S.P are same. Let S.P be Rs. 2400 each

Car	S.P	P/L	C.P
I	2400	+20%	2000
II	2400	-20%	3000

Thus, total C.P = 5000

Thus, 5,000 corresponds to 1,00,000

$$5000r \rightarrow 1,00,000$$

$$1r \rightarrow 20$$

$$2000r \rightarrow 2000 \times 20$$

$$= 40,000$$

Thus, C.P of 1<sup>st</sup> car = Rs. 40,000

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