

1.Explanation:

Solution:

$$\text{Cost price} = 17,500 + 2,500 = \text{Rs. } 20,000$$

$$\text{S.P.} = \text{Rs. } 22,500$$

$$\text{Profit} = 22,500 - 20,000 \Rightarrow \text{Rs. } 2,500$$

$$\text{Profit \%} = \left(\frac{2,500}{20,000} \times 100 \right) \% = 12.5\%$$

2. Explanation:

Solution:

$$\text{Profit ratio of A to B} = (X \times 12) : (3X \times 6) = 12X : 18X = 2 : 3$$

$$\text{So, profit of A} = 16480 \times \frac{2}{5} = 6592 \text{ Rs.}$$

$$\text{And, profit of B} = 16480 \times \frac{3}{5} = 9888 \text{ Rs.}$$

$$\text{Required difference} = 9888 - 6592 = 3296 \text{ Rs.}$$

3.

3.Explanation:

Solution:

Let the CP of fan be Rs. $100x$

$$\text{Then MP} = \text{Rs. } 100x + \frac{20}{100} \times 100x = 100x + 20x = 120x$$

$$\text{SP} = 120x - 120x \times \frac{30}{100} = \text{Rs. } (120x - 36x) = \text{Rs. } 84x$$

ATQ,

$$84x = \text{Rs. } 420$$

$$\text{So, } 100x = \frac{420}{84} \times 100 = \text{Rs. } 500$$

4. Explanation

Let the C.P of chair be $100x$.

The, S.P for Amit = C.P for Rahul = $100x + 20\% \text{ of } 100x = 100x + 20x = 120x$

S.P for Rahul = C.P for Sanjiv = $120 + 30\% \text{ of } 120 = 120x + 36x = 156x$

S.P for Sanjay = C.P for Dev = $156x + 50\% \text{ of } 156x = 156x + 78x = 234x$

ATQ,

C.P for Dev – C.P for Amit = 2680

So, $234x - 100x = 2680$

$134x = 2680$

So, $x = 20$

So, Rahul pays $120x = 120 * 20 = \text{Rs. } 2400$ to Amit.

5. Explanation

Solution:

Ratio of investment of A, B and C =

$$(12000 \times 12):(20000 \times 4 + 16000 \times 8) + (24000 \times 4 + 30000 \times 8)$$

$$(12 \times 12):(20 \times 4 + 16 \times 8):(24 \times 4 + 30 \times 8)$$

$$(144):(80 + 128):(96 + 240)$$

$$(144):(208):(336)$$

$$9:13:21$$

As, the total profit = Rs. 8600

$$\text{So, share of B} = 8600 \times \frac{13}{43} = 200 \times 13 = \text{Rs. 2600}$$

6. Explanation:

Solution:

$$\text{At 20\% loss, selling price of fan} = 2000 \times \frac{80}{100} = \text{Rs. 1600}$$

$$\text{At 20\% profit, selling price of chair} = 1600 \times \frac{120}{100} = 16 \times 120 = \text{Rs. 1920}$$

$$\text{So, overall loss} = 2000 - 1920 = \text{Rs. 80}$$

7. Explanation:

Let the Cost price of item be $100x$

So, after 20% loss, S.P of item = $100x - 20\% \text{ of } 100x = 80x$

And, it is given that

$$80x = 1600$$

$$\text{So, } x = 20$$

So, cost price of item = 2000

After 30% profit,

$$\text{S.P of item} = 2000 + 30\% \text{ of } 2000 = 2000 + 600 = \text{Rs. 2600}$$

8. Explanation:

Total investment of Elon in 2 years = $2400 + 2400 = \text{Rs. 4800}$

Total investment of Alex in 2 years = $3200 + 3200 = \text{Rs. 6400}$

Total investment of Mike in 1 years = $3500 + 3500 = \text{Rs. 3500}$

Ratio of profit share of Elon, Alex and Mike = $48 : 64 : 35$

$$\text{So, profit share of Elon} = \frac{48}{147} \times 5880 = \text{Rs. 1920}$$

9. . Explanation:

Amount invested by Abhishek = $45000 \times \frac{100}{112.5} = Rs. 40000$

Ratio of profit share of Sameer and Abhishek =

$$= \frac{45000 \times 1 + 50000 \times 1}{40000 \times 1 + 20000 \times 1} = \frac{19}{12}$$

So, required difference = $310000 \times \frac{7}{31} = Rs. 70000$

:

10. Explanation:

Neeraj got 20% profit

$$So, S.P. = 3000 \times \frac{120}{100} = Rs. 3,600$$

He again buys an article and got 25% loss

$$So, S.P. = 3,600 \times \frac{75}{100} = Rs. 2,700$$

$$\begin{aligned} \text{Total loss} &= \text{initial c.p.} - \text{final s.p.} \\ &= 3,000 - 2,700 = Rs 300 \end{aligned}$$

11. . Explanation:**Solution:**

$$\text{Total cost price} = 5,840 + 360 = Rs. 6,200$$

$$\text{Profit} = 6,500 - 6,200 = Rs. 300$$

$$\text{Profit \%} = \frac{300}{6,200} \times 100 \approx 5\%$$

12. . Explanation:

Let the initial investment of P, Q and R be Rs. $3x$, $5x$, and $1x$

Their profit sharing ratio

$$3x \times 5 + 6x \times 7 : 5x \times 5 + 3x \times 7 : 1x \times 12$$

$$57x : 46x : 12x$$

$$57x + 46x + 12x = 3,450$$

$$115x = 3,450$$

$$\text{Profit earned by R} = \frac{3,450}{115x} \times 12x = Rs. 360$$

13. Explanation:

$$\begin{aligned}\text{Price at which Shivam purchased the bike} &= 80,000 \times \frac{120}{100} \\ &= \text{Rs.} 96,000\end{aligned}$$

$$\begin{aligned}\text{So, price at which Adarsh purchased the bike} &= (96,000 + 4,000) \times \frac{(100-18)}{100} \\ &= \text{Rs.} 82,000\end{aligned}$$

14. Explanation:**Solution:**

Amit : Deepak

Initial investment

3 : 1

3 × 8 : 1 × 12

24 : 12

2 : 1

Now, 1 unit = Rs 8000

So, (2+1) units = 3 units = 3 × 8000 = Rs 24000

15. Explanation:

Let the Cost price of the article be Rs. x.

Then, Selling price = Rs. 0.9x

A.T.Q.:

$$\Rightarrow 0.9x + 125 = 115\% \text{ of } x$$

$$\Rightarrow 0.9x + 125 = (23/20)x$$

$$\Rightarrow 18x + 2500 = 23x$$

$$\Rightarrow 5x = 2500$$

$$\Rightarrow x = \text{Rs.} 500 = \text{Cost Price of the article}$$

16. . Explanation:

Let the cost price of a raspberry be ₹x.

Then, selling price in first condition = (x) + (x) × 18% = x + 0.18x = 1.18x

And selling price in second condition = (x) + (x) × 38% = x + 0.38x = 1.38x

Now, as per question,

Selling price in first condition + ₹1 = Selling price in second condition

$$\Rightarrow 1.18x + 1 = 1.38x$$

$$\Rightarrow 1.38x - 1.18x = 1$$

$$\Rightarrow 0.2x = 1$$

$$\Rightarrow x = 1/0.2 = 5$$

Therefore, selling price in second condition = 1.38 × 5 = ₹6.9

17. Explanation:

Let the S.P of 1st watch be x then S.P of 2nd watch be $5000 - x$
Now, C.P of 1st watch = S.P of 2nd watch = $5000 - x$

Loss in 1st watch = $33.33\% = \frac{1}{3}$

S.P of 1st watch = $(5000 - x) - [(5000 - x) \frac{1}{3}]$

$$x = (15000 - 3x - 5000 + x)/3$$

$$5x = 10000$$

$$x = 2000$$

Now S.P of 2nd watch = $5000 - 2000 = 3000$

Profit = 60% so, C.P of 2nd watch = $3000 \times 100/160 = \text{Rs } 1875$

Therefore, total C.P = $3000 + 1875 = \text{Rs } 4875$

Total Profit = $5000 - 4875 = \text{Rs } 125$

18. . Explanation:

$$25\% = \frac{1}{4}$$

CP : SP : MP

$$4 : 5$$

$$\underline{3 : 4}$$

$$12 : 15 : 20$$

$$CP : SP = 12 : 15$$

19. Explanation:

$$MP \text{ of Refrigerator} = \frac{3675 \times 100}{75}$$

$$= \text{Rs. } 4900$$

If Refrigerator sold without discount,

Then

$$CP = \frac{4900 \times 100}{140}$$

$$= 3500 \text{ Rs.}$$

20. Explanation:

Time duration of Mohit = 12 months

Time duration of Rohit = $(12 - m)$

Same as that of Puneet = $(12 - m)$

Mohit : Rohit : Puneet

$$100000 \times 12 : 120000(12-m) : 140000(12-x)$$

$$\frac{120}{12(12-m)} = \frac{20}{18}$$

$$9 = 12 - m$$

$$m = 3$$

hence, 3 months is the correct answer.

21. . Explanation:

$$\frac{CP}{MP} = \frac{100-D\%}{100+P\%} = \frac{100-30}{100+5} = \frac{70}{105}$$

$$CP = 70, \quad MP = 105$$

$$x = \frac{MP-CP}{CP} = \frac{105-70}{70} = \frac{35}{70}$$

$$x\% = \frac{35}{70} \times 100 = 50\%$$

22. Explanation:

Let total capital is 6 units

| | | | |
|-----------------------|---|---|----|
| then, | A | B | C |
| ratio of capital | 1 | 2 | 3 |
| ratio of time | 4 | 3 | 12 |
| ratio of their profit | 4 | 6 | 36 |

Total profit = 46 unit = 69000

1 unit = 1500

Share of B is = 6 unit \times 1500

= 9000 Rupees.

23. Explanation:

Discount - 20%, Profit - 16%

$$\begin{array}{ccc}
 CP & : & MP \\
 80 & & 116 \\
 \downarrow & & \downarrow \\
 425 & & 616.25 \\
 \text{then } [MP = 616.25 \text{ Rs}]
 \end{array}$$

24. Explanation:

$$\begin{aligned} 30\% T_1 + 20\% T_2 &= P \\ 20\% T_1 + 30\% T_2 &= P - 30 \end{aligned}$$

$$\begin{array}{r} - \\ - \\ \hline 10\% T_1 - 10\% T_2 = 30 \end{array}$$

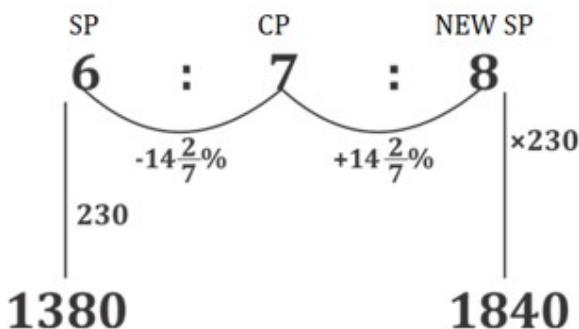
$$T_1 - T_2 = 300$$

given that $T_1 + T_2 = 1700$

then, $T_1 = 1000$

$T_2 = 700$

25. Explanation:



26. Explanation:

$$20\% = \frac{1}{5} \text{ & } 25\% = \frac{1}{4}$$

| | |
|-------------------------------|-------------|
| A | B |
| 5 | 6 |
| B | C |
| 4 | 5 |
| $\frac{20}{4} : \frac{30}{5}$ | |
| A | C |
| Rs 170 | 2 : 3 |
| $\times 85$ | $\times 85$ |
| | Rs 255 |

27. Explanation

profit and loss formula

$$\text{Loss \%} = \frac{\text{C.P.} - \text{S.P.}}{\text{C.P.}} \times 100 = \frac{625 - 100}{625} \times 100 = 6.25\%$$

28. Explanation

$$\text{Net loss \%} = \frac{\text{C.P.} - \text{S.P.}}{\text{C.P.}} \times 100 = \frac{900 - 100}{900} \times 100 = 9\%$$

29. Explanation

$$\text{CP} = (\text{Difference in SP}) \div (\% \text{ Difference in profit}) = 600 / (5 - (-11)) \times 100 = (600 / 16) \times 100 = \text{Rs}3750$$

30. Explanation

Let CP = 100 then SP = 120. Profit % if it was calculated on SP will be
 $\Rightarrow 20/120 \times = 16.67\%$

31.Explanation.

Let CP= Rs. 100, therefore, MP= Rs. 125, Discount% = 12%
SP = 88% of MP = 88% of 125 = Rs. 110. Profit = 110 – 100 = Rs. 10
Profit = 10%.

32.Explanation.

Let CP = 100. SP = 132. This is after a discount of 12%, thus the marked price must be $132/0.88 = 150$. Thus he is marking the product 50% above the cost price. Hence the profit will be 50%

33. Explanation.

Rs. 1.4 is the increase in absolute, 20% is the increase in percentage. Thus those two can be equated.
Hence it can be concluded that 1.4 is 20% of the price i.e. the CP of one orange is $1.4/0.20 = \text{Rs. } 7$.
The SP per orange in the first case is $7 \times 1.1 = \text{Rs. } 7.70$. Hence option is E.

34. Explanation.

$CP = (\text{Difference in SP}) \div (\% \text{ Difference in profit})$ CP of the horse = $1800 \times 100 / 14.5 - (-8) = 1800 \times 100 / 22.5 \Rightarrow CP = 8000$.

35. Explanation.

Old CP = $4000 \times (100/125) = 3200$

36. Explanation.

Such question can be better answered by thinking in the reverse order. Let the CP = 100, there is a loss of 12% in the final case i.e. SP = $100 - 12 = \text{Rs } 88$. Now this Rs. 88 is the four-fifth of the selling price as per the question. The original selling price will be $88 \times 5/4 = \text{Rs. } 110$. CP = 100. There is a profit of Rs. 10, which is nothing but 10%, as the CP is taken to be Rs. 100

37. Explanation

Marked Price (MP) = ₹492

Discount = 39%

Profit = 22%

Formula used:

Selling Price (SP) = MP - (Discount × MP / 100)

Cost Price (CP) = SP / (1 + Profit / 100)

Calculation:

$$SP = 492 - (39 \times 492 / 100)$$

$$\Rightarrow SP = 492 - 191.88$$

$$\Rightarrow SP = 300.12$$

$$CP = 300.12 / (1 + 22 / 100)$$

$$\Rightarrow CP = 300.12 / 1.22$$

$$\Rightarrow CP = 246$$

∴ The correct answer is option D

38. Explanation.

Number of oranges bought = 400

Cost price of 100 oranges = ₹1410

Profit = ₹960

Formula Used:

Selling Price per dozen = (Total Selling Price / Number of oranges sold) × 12

Calculation:

Cost price of 400 oranges = $400 \times ₹1410 / 100$

Cost price of 400 oranges = ₹5640

Total Selling Price = Cost price + Profit

Total Selling Price = ₹5640 + ₹960

Total Selling Price = ₹6600

Selling Price per orange = ₹6600 / 400

Selling Price per orange = ₹16.5

Selling Price per dozen = ₹16.5 × 12

⇒ ₹198

The selling price per dozen of oranges is ₹198.

39. Explanation

Given:

Profit = ₹190

Markup = 20% above cost price

Discount = 15% on list price

Formula used:

Profit = Selling Price - Cost Price

Selling Price = List Price × (1 - Discount Percentage/100)

List Price = Cost Price × (1 + Markup Percentage/100)

Calculation:

Let the Cost Price = ₹x

List Price = $x \times (1 + 20/100) = 1.2x$

Selling Price = List Price × (1 - 15/100) = $1.2x \times 0.85 = 1.02x$

Profit = Selling Price - Cost Price

$190 = 1.02x - x$

⇒ $190 = 0.02x$

⇒ $x = 190 \div 0.02 = ₹9500$

List Price = $1.2x = 1.2 \times 9500 = ₹11,400$

∴ The list price of the fan is ₹11,400.

40.Explanation

Given:

Marked price of notebook = ₹60

Discount on notebook = 25%

Marked price of pen = ₹80

Discount on pen = 25%

Formula Used:

Discounted price = Marked price × (1 - Discount%)

Saving = Marked price - Discounted price

Calculation:

Discount on notebook = 25% of ₹60
⇒ Discount on notebook = 60×0.25
⇒ Discount on notebook = 15
Discount on pen = 25% of ₹80
⇒ Discount on pen = 80×0.25
⇒ Discount on pen = 20
Total savings = Discount on notebook + Discount on pen
⇒ Total savings = 15 + 20
⇒ Total savings = 35

Raghav saved ₹35 due to the sale.

41.Explanation**Given:**

Marked price of the article = ₹x
Discount = 15%
Selling price after discount = ₹408
VAT = 25%
Selling price after VAT = ₹408

Formula Used:

Selling price after discount = Marked price \times (1 - Discount%)
Selling price after VAT = Selling price after discount \times (1 + VAT%)

Calculation:

Selling price after VAT = ₹408
⇒ Marked price \times (1 - 0.15) \times (1 + 0.25) = 408
⇒ $x \times 0.85 \times 1.25 = 408$
⇒ $x \times 1.0625 = 408$
⇒ $x = 408 / 1.0625$
⇒ $x = 384$

The value of ₹x is ₹384.

42.Explanation**Given:**

Profit = 25 Percent
Discount = 15 Percent

Formula:

$MP/CP = (100 + Profit\%)/(100 - Discount\%)$

MP = Printed Price

CP = Cost Price

Calculation:

We know that –

$MP/CP = (100 + Profit\%)/(100 - Discount\%) \dots\dots\dots (1)$

Put all given values in equation (1) then we get

$MP/CP = (100 + 25)/(100 - 15)$

⇒ 125/85

⇒ 25/17

∴ The Ratio of the Printed price and cost price of radio will be 25 : 17

43.Explanation.

Given:

A shopkeeper normally makes a profit of 20% in a certain transaction,
He weights 900 g instead of 1 kg, due to an issue with the weighing machine.
He charges 10% less than what he normally charges.

Formula used:

$$SP = \frac{100 - \text{discount}}{100} \times CP$$

Calculations:

Let the cost price of 1 Kg of goods = Rs. 100

So, the selling price of 1 Kg of goods = $100 \times \frac{120}{100}$ = Rs. 120

Cost price of 900 grams of goods = Rs. 90

According to question,

Shopkeeper charges 10% less than what he normally charges

So, the new selling price = old selling price $\times \frac{(100 - 10)}{100}$

$$\Rightarrow \text{New selling price} = 120 \times \frac{90}{100} = \text{Rs. } 108$$

So, profit = Rs. (108 - 90) = Rs. 18

So, profit % = $(\frac{18}{90}) \times 100 = 20\%$

Hence, Profit percentage is 20%.

44. Explanation.

Given:

A dishonest merchant sells goods at a 12.5% loss on the cost price but uses 28 g weight instead of 36 g.

Concept used:

Final percentage change after two successive increments of A% and B% = $(A + B + AB/100)\%$

Calculation:

Percentage gain by using 28 g weight instead of 36 g = $36 - 28/28 \times 100 = 2007\%$

Percentage loss = 12.5%

Considering 12.5% loss as -12.5% profit,

Now, the final percentage profit/loss = $2007 - 12.5 = 2007 \times 12.5/100 = +12.5\%$

Here, the positive sign indicates a percentage profit.

∴ His percentage profit is 12.5%

Shortcut Trick Calculation:

Merchant sells goods at a 12.5% loss:

C.P : S.P = 8 : 7

Merchant uses 28 g weight instead of 36 g

C.P : S.P = 28 : 36 = 7 : 9

We can use successive methods:

| C.P. | S.P. |
|------|------|
| 8 | 7 |
| 7 | 9 |
| 56 | 63 |

So, C.P : S.P = 56 : 63 = 8 : 9

Profit% = $\{(9 - 8)/8\} \times 100$

$$\Rightarrow 12.5\%$$

∴ The correct answer is 12.5%.

45.Explanation.

Given:

Two discounts = 40% and 20%

Formula:

Two discounts a% and b%

Total discount = $(a+b)-ab/100$

Discount amount = (marked price) \times (discount %)/100

Calculation:

Single discount percentage = $(40+20)-40 \times 20/100 = 52\%$

$\Rightarrow 52 = 988/\text{marked price} \times 100$

$\Rightarrow \text{Marked price} = 1900$

∴ Marked price of an article is Rs.1900.

Alternate Method Let the MP be x.

$$x - [x \times (100 - 40)/100 \times (100 - 20)/100] = 988$$

$$\Rightarrow x - [x \times (60/100) \times (80/100)] = 988$$

$$\Rightarrow x - x \times (3/5) \times (4/5) = 988$$

$$\Rightarrow 13x/25 = 988$$

$$\Rightarrow x = (988 \times 25)/13$$

$$\Rightarrow x = 1900$$

∴ Marked price of an article is Rs.1900.

46.Explanation.

Given:

Cost price of 36 kg sugar = Rs.1040

Formula used:

Profit = Selling price - Cost price

Calculation:

CP of 1 kg sugar = Rs.1040/36

According to the question,

$SP \times 10 = SP \times 36 - CP \times 36$

$\Rightarrow CP \times 36 = 26 \times SP$

$\Rightarrow 1040/36 \times 36 = 26 \times SP$

$\Rightarrow 1040 = 26 \times SP$

$\Rightarrow SP = 1040/26 = 40$

Now, SP of 5 kg of sugar = $40 \times 5 = \text{Rs. } 200$

∴ The selling price of 5 kg sugar = Rs.200

47. Explanation

Given:

A grocery shop is offering a 10% discount on the purchase of Rs.500 and above. A 5% discount is given on the purchase of value above Rs.250 but below Rs.500. A discount of an additional 1% is given if payment is made instantly in cash.

He bought 25 packets of biscuits and one packet is priced at Rs.30.

Concept used:

1. Final discount percentage after two successive discounts of A% and B% = $(A+B-AB/100)\%$

2. Selling price = Marked Price \times (1 - Discount%)

Calculation:

Total billed price = $25 \times 30 = \text{Rs. } 750$

Since he paid in cash, he would get two consecutive discounts of 10% and 1%.

So, final discounts = $10 + 1 - (10 \times 1)/100 = 10.9\%$

Now, he would have to pay = $750 \times (1 - 10.9\%) = \text{Rs. } 668.25$

∴ He would have to pay Rs. 668.25.

48.Explanation.

Calculation:

Let cost price of the item be Rs. x

According to the question

$$(x - 440) = (1000 - x) \times 60/100$$

$$\Rightarrow (x - 440) = (1000 - x) \times 3/5$$

$$\Rightarrow 5x - 2200 = 3000 - 3x$$

$$\Rightarrow 5x + 3x = 3000 + 2200$$

$$\Rightarrow 8x = 5200$$

$$\Rightarrow x = 5200/8$$

$$\Rightarrow x = 650$$

∴ The correct answer is option A

Shortcut Trick

$$440 \quad \underbrace{\qquad}_{3} \quad \underbrace{\qquad}_{1} \quad \overbrace{\qquad}^{5} \quad 1000$$
$$5+3 \Rightarrow 1000 - 440$$
$$8 \Rightarrow 560$$
$$1 \Rightarrow 70$$
$$\text{C.P.} = 440 + 70 \times 3$$

49.Explanation.

Shortcut Trick

Fruits bought at 15 for Rs. 140

Equal quantity of bought at 10 for Rs. 120

Fruits sold at Rs. 132/dozen

Let, the total quantity of fruits = 30

| | 15 for Rs. 140 | 10 for Rs. 120 | Total |
|----|----------------|----------------|---------|
| CP | Rs. 140 | Rs. 180 | Rs. 320 |
| SP | Rs. 165 | Rs. 165 | Rs. 330 |

Profit percent = $(330 - 320)/320 \times 100 = 3.1/8\%$

∴ The required profit percent is 3.1/8%.

Alternate Method

Given:

Fruits at 15 for Rs. 140 = Fruits at 10 for Rs. 120

Fruits sold at Rs. 132/dozen

Formula used:

Profit > Loss

Profit = SP - CP

Profit percent = Profit/CP × 100

Calculation:

Let, Total fruit brought

\Rightarrow LCM (10 and 15) = 30

So, CP of 30 fruits at the rate of 15 for Rs. 140

$\Rightarrow 140/15 \times 30 = \text{Rs. } 280$

Similarly, CP of 30 fruits at 10 for Rs. 120,

$\Rightarrow 120/10 \times 30 = \text{Rs. } 360$

So, Total CP of 60 fruits = $280 + 360 = \text{Rs. } 640$

Now,

\Rightarrow SP of 12 fruits = Rs. 132

\Rightarrow SP of 1 fruit = Rs. 11

\Rightarrow SP of 60 fruits = $11 \times 60 = \text{Rs. } 660$

So, Profit = SP - CP = $\text{Rs. } 660 - \text{Rs. } 640$

$\Rightarrow \text{Rs. } 20$

Profit percent = $20/640 \times 100 = 3.1/8$

∴ The required profit percent is 3.1/8%.

50.Explanation.

Given:

A invested Rs. 29,000, while B and C invested Rs. 25,000 each

After 4 months, A withdrew Rs. 3,000

After 6 months from the initial date, C invested Rs. 12,000 more to the business

The total profit = Rs. 33200

Calculation:

The ratio of A, B, and C = $[(29000 \times 4) + (26000 \times 8)] : (25000 \times 12) : [(25000 \times 6) + (37000 \times 6)]$

= $(116000 + 208000) : 300000 : (150000 + 222000)$

= $324000 : 300000 : 372000$

= $27 : 25 : 31$

\therefore The profit of C = $(31/83) \times 33200 = \text{Rs. } 12400$

\therefore The share of C (in Rs.) in the profit at the end of the year is Rs. 12400