



Name of the Bundle	Advanced Bundle V1	Subject	APTITUDE
Topic	PROFIT AND LOSS	Last updated on	14 August 2025

GENERAL FORMULAE

$$\text{GAIN \%} = \frac{SP - CP}{C.P} \times 100\%$$

$$\text{LOSS \%} = \frac{CP - SP}{C.P} \times 100\%$$



$$CP \times (100 + P) = MP \times (100 - D)$$

$$CP/MP = (100 - D)/(100 + P)$$

Note:

- 1) Mark-up% is always calculated on the cost price.
- 2) Discount% is always calculated on the Marked price.
- 3) Profit or Loss % is always calculated on the Cost Price.
- 4) The money that is being spent on repairs, maintenance, transportation, Taxes such as GST etc., that must be **added to the Cost Price**.



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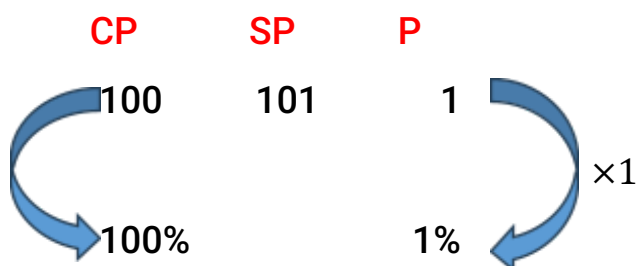
1) Find gain percent if C.P=100, S.P = 101.

- a) 1 b)2 c)3 d)-1

ANS: a) 1

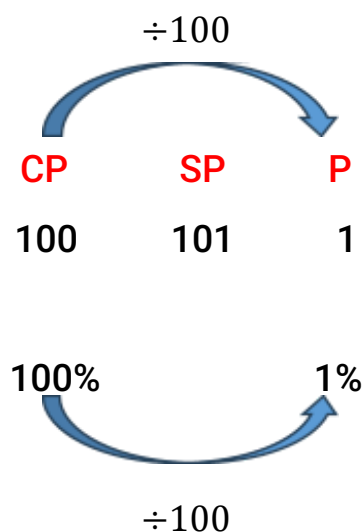
SOLVING BY RATIO CONCEPT

Method 1



Method 2

BY COMPARING C.P AND PROFIT

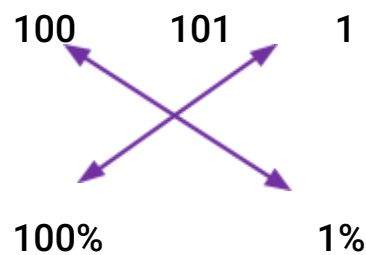




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Method 3

BY CROSS MULTIPLICATION CP SP P

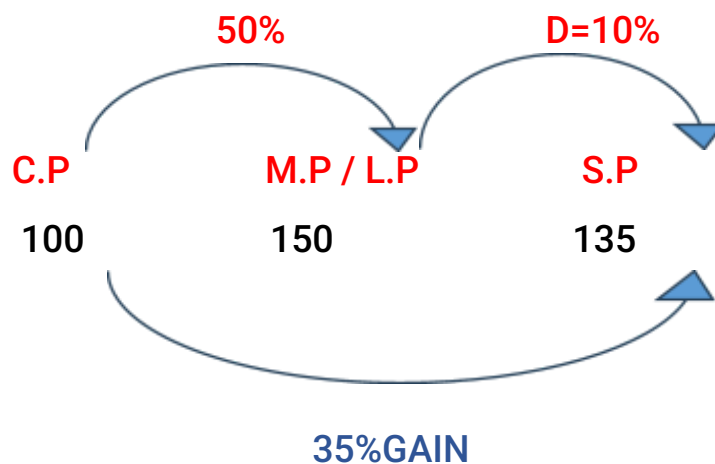


2) A merchant marks up the price by 50% and sells it at a discount of 10%. Then find the overall gain or loss.

- a) 20 b) 25 c) 35 d) 40

ANS: c) 35

SOLUTION:





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3) Find the single discount equivalent to a discount series of 37.5% & $11\frac{1}{9}\%$.

a) 33.33% b) 44.44% c) 50% d) 20%

ANS: b) 44.44%

SOLUTION:

MP **SP** **(MP-SP)**

8 5

9 8

9 5



100%



44.44%



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4) Find the S.P of the table. A table is marked up for Rs. 2000 with 3 successive discount of $11\frac{1}{9}\%$, $12\frac{1}{2}\%$ & 10%

- a) 1000 b) 2000 c) 1400 d) 1500

ANS: c) 1400

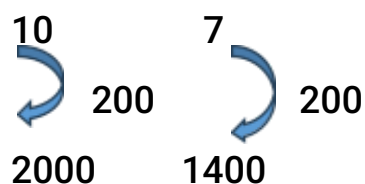
SOLUTION:

MP SP

8 7

9 8

10 9

10 7

2000 1400

5) A Shopkeeper earns a profit of 12% on selling a book at 10% discount on the printed price. Find the ratio of CP to Printed price of a book.

- a) 5: 12 b) 45: 56 c) 10: 9 d) 6: 5

ANS: b) 45: 56

Method 1

CP MP

90 : 112

45 : 56



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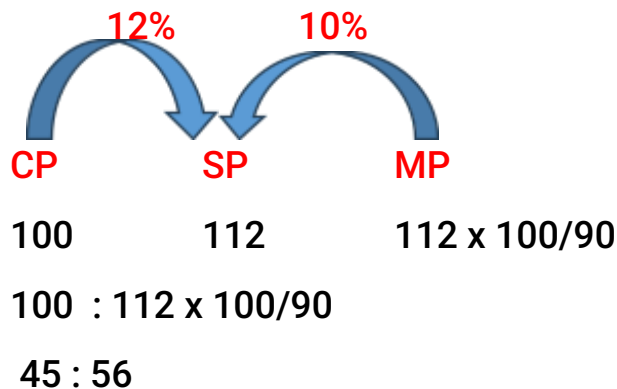


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Method 2



- 6) A shopkeeper allows a discount of 4% to a custom. If gives 1 article free on purchase of every 15 articles and still earn 35% profit. Find the ratio of CP & MP.

- a) 5: 2 b) 4: 5 c) 1: 2 d)2: 3

ANS: d)2: 3

Method 1

CP	MP
96	135
16	15
6	9

Ans 2 : 3



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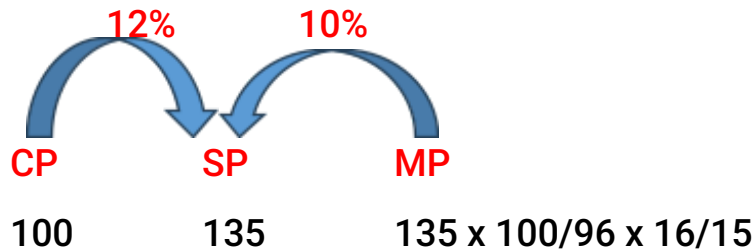


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Method 2



$$100 : 135 \times 100/96 \times 16/15$$

$$2 : 3$$

7) A shopkeeper allows a discount of 20% to a custom. If gives 3 articles free on purchase of every 5 articles and still earn 25% profit. Find the ratio of CP & MP.

a) 2 : 5

b) 4: 5

c) 1: 2

d)2: 3

ANS: a) 2 : 5

Method 1

$$\begin{array}{cc} \text{CP} & \text{MP} \\ 80 & : \quad 125 \end{array}$$

$$8 : 5$$

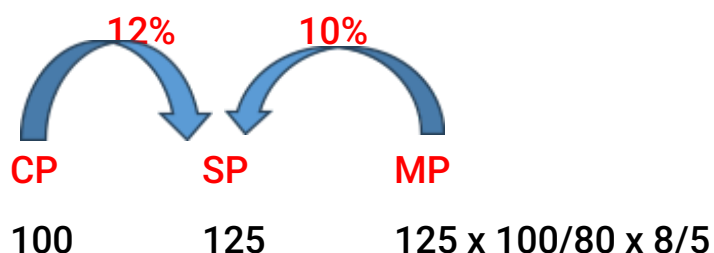
$$10 : 25$$

Ans 2 : 5



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Method 2



$$100 : 125 \times 100/80 \times 8/5$$

$$2 : 5$$

- 8) The MP of an article is Rs. 744. After allowing x% discount, a shopkeeper still gains the same %. If no discount is allowed then the gain $14 \frac{2}{7}\%$. find CP of article.

- a) 500 b) 600 c) 651 d) 700

ANS: c) 651

SOLUTIONS:

$$14 \frac{2}{7}\% = \frac{1}{7}$$

(MP = SP) -- No Discount means

CP SP



$$651 \quad 744$$



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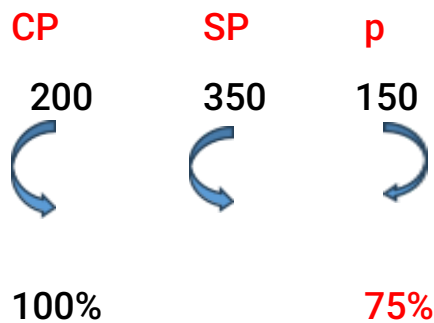
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9) An article is purchased for Rs 200 and sold for Rs.350. The percentage gain will be

- a)50% b)25% c)100% d)75%

ANS: d)75%

solutions:

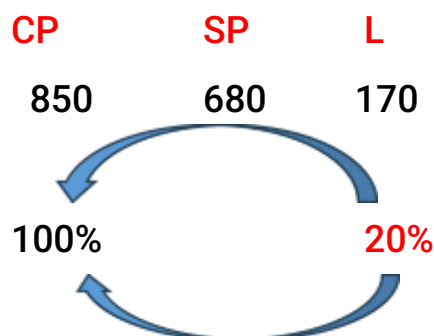


10) Find percentage loss when cost price =Rs 850 and selling price =Rs 680.

- a)30% b)25% c)35% d)20%

ANS: d)20%

solutions:





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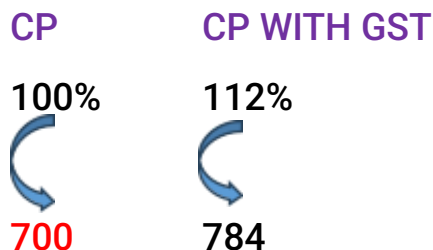
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11) Salim bought an article for Rs 784 which included GST of 12%.
What was the price of the article before GST was added?

- a)700 b)650 c)550 d)600

ANS: a)700

solutions:

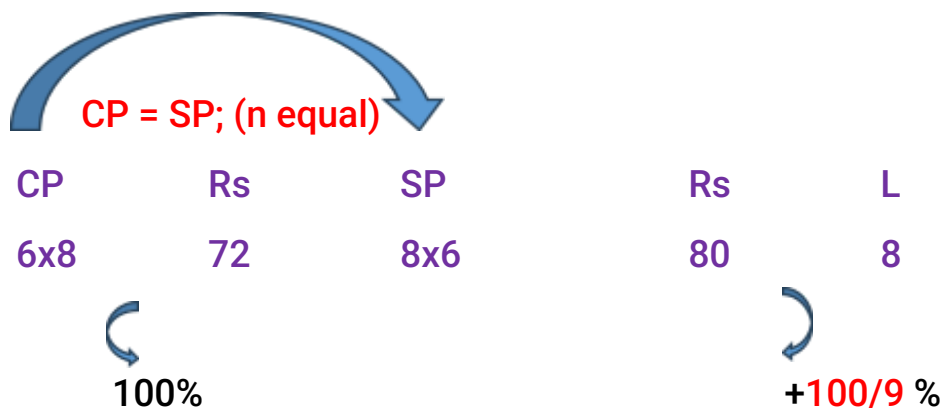


12) A vendor bought mangoes at the rate of 8 for Rs.12 and sold them at the rate of 6 for Rs.10. Find his percentage gain.

- a)50% b) $\frac{100}{9}\%$ c)10% d) $\frac{100}{3}\%$

ANS: b) $\frac{100}{9}\%$

Solutions:





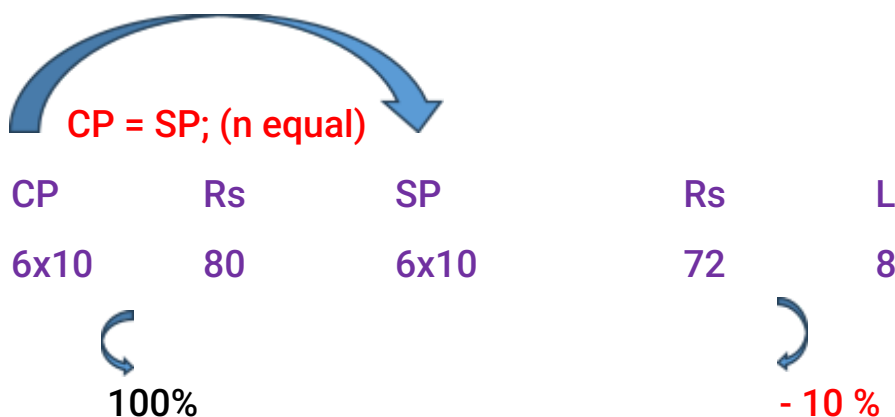
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13) A vendor bought bananas at the rate of 6 for Rs. 10 and sold them at the rate of 4 for Rs.6. What is the percentage loss?

- a)20% b)10% c)90% d)30%

ANS: b)10%

Solutions:



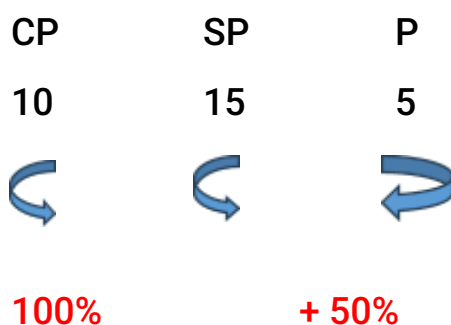
14) If the cost price of 15 shirts is equal to the selling price of 10 shirts, then what will be the gain or loss percent?

- a)50% gain b) $33\frac{1}{3}\%$ gain c) 50% loss d) $33\frac{1}{3}\%$ loss

ANS: a)50% gain

Solutions:

$$15 \text{ CP} = 10 \text{ SP}$$





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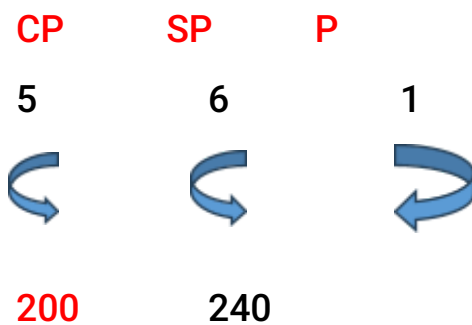
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15) An article is sold for Rs. 240. If the profit is one fifth of its cost price then the cost price is

- a) Rs.192 b) Rs.200 c) Rs.180 d) Rs.164

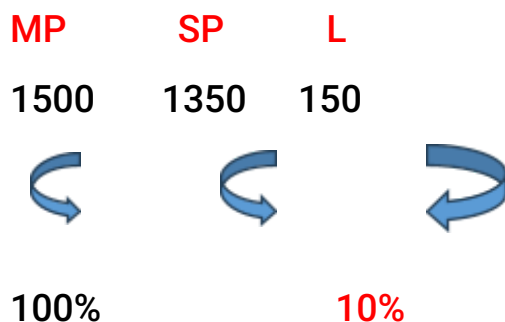
ANS: b) Rs.200



16) A bicycle marked at 1,500 is sold for 1,350. What is the percentage of discount?

- a) 20% b) 18% c) 15% d) 10%

ANS: d) 10%





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17) A man bought a bicycle for Rs.1250. He spent Rs.250 on its repairs. He then sold it for rs.1350. Find his gain or loss percentage

- a) 30% b) 12% c) 20% d)10%

ANS: d)10%

CP	SP	L	
1500	1350	150	NOTE CP= bought + REPAIRS
			
100%		10%	

18) By selling a book for Rs. 360, a 20% discount was given. What is the marked price of the book?

- a) Rs.450 b) Rs.420 c) Rs.400 d) Rs.480

ANS: a) Rs.450

MP	SP
450	360
	
100%	80%



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19) A man sells two wrist watches at 594 each. On one he gains 10% and on the other he loses 10%. Find his gain or loss percent on the whole.

- a) 1% gain b) 1% loss c) 2% gain d) 2% loss

ANS: b) 1% loss

METHOD1

$$110/100 \times 90/100$$

$$= 99/100$$

$$= 1\% \text{ LOSS}$$

METHOD 2

$$= +10 - 10 + 10 \times -10/100$$

$$= -1$$

20) A bought a horse of Rs. 10,000 and sold it to B at 10% profit and B sold it to C at 10% loss. Find the cost price of C

- a) Rs.10000 b) Rs.9900 c) Rs.9999 d) Rs.11000

ANS: b) Rs.9900

METHOD1

$$= +10 - 10 + 10 \times -10/100$$

$$= 1\% \text{ LOSS}$$

$$100\% ===== 10000$$

$$99\% ===== 9900$$



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21) A television set was sold for Rs.14,400 after giving successive discounts of 10% and 20% respectively. What was the marked price?

- a) Rs.18,000 b) Rs.20,000 c) Rs.22,000 d) Rs.19,000

ANS: b) Rs.20,000

METHOD1

$$= -20-10 \text{ } (-20 \times -10/100)$$

=-28%

$$100-28 = 72\%$$

72%



14400

100%

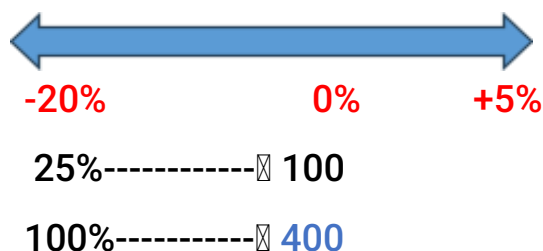


20000

22) A shopkeeper sold an article at a 20% loss. If he could sell 100 more, his profit would have been 5%. Find the cost price?

- a) Rs.600 b) Rs.520 c) Rs.450 d) Rs.400

ANS: d) Rs.400





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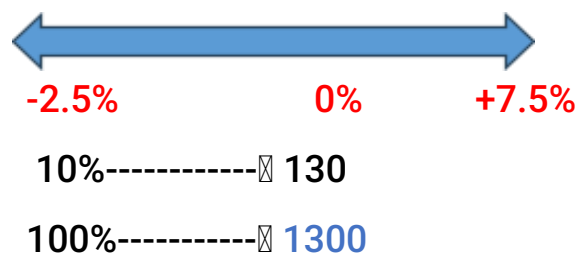
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23) A dealer sold a radius at a loss of 2.5%. had he sold it for Rs 130 more he would have gained 7.5%. Find the CP of article

- a)1000 b)1100 c)1200 d)1300

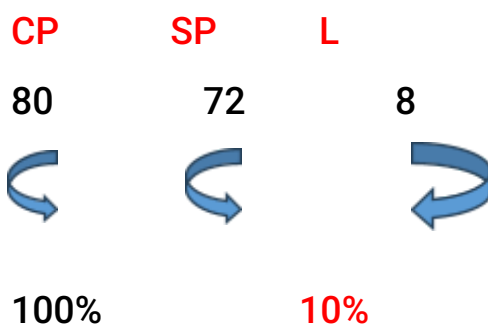
ANS: d)1300



24) After selling 72 articles a man suffers a loss of SP of 8 articles. Find his loss %

- a) 10% b) 11 1/9% c) 12.5% d) 14 2/7%

ANS: a) 10%





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25) After selling 72 articles a man suffers a profit of SP of 9 articles. Find his loss %

- a) 10% b) 11 1/9% c) 12.5% d) 14 2/7%

ANS: d) 14 2/7%

Solutions

CP	SP	L
63	72	9
		
100%		14 2/7%

26) A man sells 2 horses at the rate of Rs.1995 lakh each on one he gains 5% & on the other the losses 5%. Find his profit or loss % in the whole transactions

- a) no loss no gain b) 0.25% loss
c) 12.5% profit d) 0.25% profit

ANS: b) 0.25% loss

METHOD1

$$= +5 - 5 + 5 \times -5/100$$

=.25% Loss



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27) A man bought 2 horses at the rate of Rs, 1995 lakh each on one he gains 5% & on the other the losses 5%. Find his profit or loss % in the whole transactions

- a) no loss no gain b) 0.25% loss
c) 12.5% profit d) 0 .25% profit

ANS: a) no loss no gain

note (Qns bought Or buying same % ans will be no loss no gain.)

28) 2 chairs and 1 table cost Rs. 880, while 1 chair and 2 table cost Rs .980. find the cost of each.

- a)Rs. 280 and 380 b)Rs. 185 and 285
c)Rs. 260 and 360 d)Rs. 195 and 295

ANS: c)Rs. 260 and 360

Solutions

let the price of each chair =x

price of each table=y

$$2x + y = 880$$

$$x + 2y = 880$$

$$y-x=100$$

$$880-100=780/3$$

$$=260$$

$$Y=260+100=360$$

$$X=260$$



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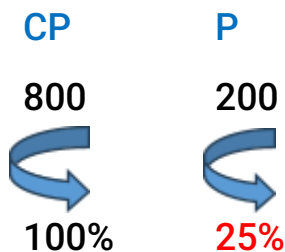
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29) A shopkeeper promises to sell his goods at cost price but uses 800gm weight for 1kg. find the profit.

- a) 10% b) 20% c) 25% d) 50%

ANS: c) 25%

SOLUTIONS



Alternate method:

Initial cost price = 1kg

Selling price = 1 kg

But, the shopkeeper sells only 800 grams in the place of 1kg(1000 grams).

So, we have to take cost price is also 800 grams.

Now, cost price = 800 grams, Profit = 200 grams.

$$\text{Profit \%} = (200/800) * 100 = 25\%$$



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30) A shopkeeper sells rice at a profit of 25% but uses weights which are 20% less than market weight. Find the profit earned by him

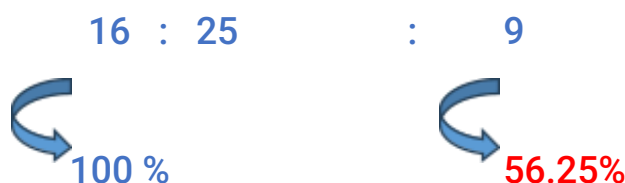
- a) 56.25% b) 50% c) 75% d) 37.5%

ANS: a) 56.25%

SOLUTIONS

Profit ----- 4 5

Weight ----- 4 5





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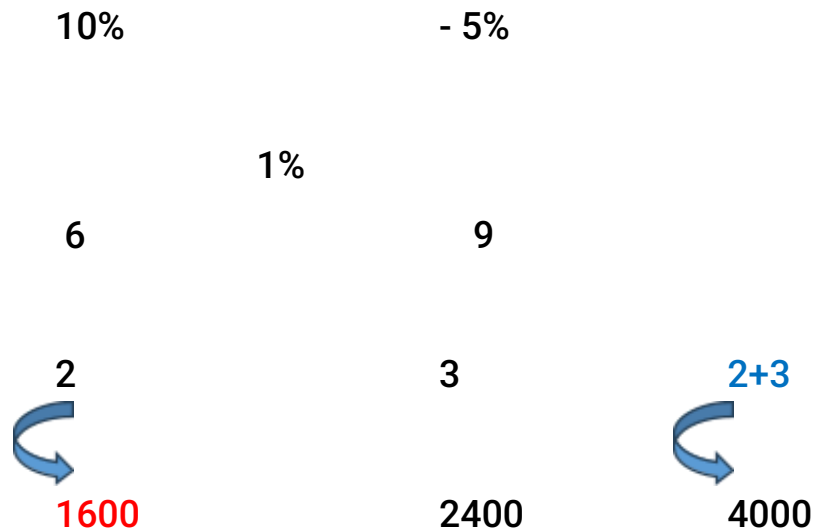
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31) A man bought a horse and a cow for Rs.4000. He sold the horse at a gain of 10% & the cow at a loss of 5%. If he gains 1% on the whole transaction then find the cost price of the horse.

- a)2400 b)2000 c)3000 d)1600

ANS: d)1600

SOLUTIONS



32) A man sold a book at 30% profit & a pen at 40% profit. If he sold the book at 40%profit and the pen at 30% profit. He gained Rs 800 more. find the difference in cp of book and pen

- a) 4000 b) 6000 c) 8000 d) 5000

ANS: c) 8000

SOLUTIONS

$$(40-30)\% \text{-----} \times \quad 10\% = 800$$

$$100\% = 8000$$



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33) A man sold a book at 13% profit & a pen at 17% profit. If he sold the book at 17% profit and the pen at 13% profit. He gained Rs 80 more. find their individual cost prize if he purchased book and pen for Rs 25000

a) 11500 & 13500

b) 13500 & 11500

c) 12500 & 12500

d) 17000 & 13000

ANS: a) 11500 & 13500

SOLUTIONS

$$B + P = 25000 \quad (17-13)\% \quad \text{-----} \quad 4\% = 80$$

$$B - P = 2000 \quad 100\% = 2000$$

$$2P = 23000$$

P = 11500 & B = 13500

34) On selling a chair at 5% loss and a table at 15% gain, a man gains Rs. 300. If he sells the chair at 5% gain and the table at 5% gain, then he gains Rs. 180. The actual cost of the table is

a) 4000

b) 2400

c) 8000

d) 5000

ANS: b) 2400

Chair

Table

$$5L \quad 15 G \quad = 300$$

$$5G \quad 5\% G \quad = 180$$

$$20\% \text{ Table} \quad = 480$$

$$100\% \quad = \mathbf{2400}$$



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Name of the Bundle	Advanced Bundle V1	Subject	APTITUDE
Topic	PROFIT AND LOSS	Last updated on	14 August 2025

Offers (Buy X Get Y Free)

35) If 1 shirt is offered free on purchase of 4 shirts, What is the effective discount (in%) on each shirt?

- a) 20 b)25 c) 21 d) 33

ANS: a) 20

Solution

Buy x, Get y free

$$\text{Effective Discount \%} = \frac{y}{x + y}$$

X=4, Y=1

Effective Discount % = $\frac{1}{5} \times 100 = 20$

36) A shop is running an offer – Buy 2 pairs of shoes and get 1 pair free.

- a) 20 b)25 c) 21 d) 33 $\frac{1}{3}$

ANS: d) 33 $\frac{1}{3}$

Solution

X=2, Y=1

Effective Discount % = $\frac{1}{3} \times 100 = 33 \frac{1}{3}$



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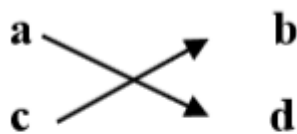
Name of the Bundle	Advanced Bundle V1	Subject	APTITUDE
Topic	PROFIT AND LOSS	Last updated on	14 August 2025

37) A person purchased 11 articles for ₹ 10 & sold 10 articles for ₹ 11. Find his Profit/Loss.

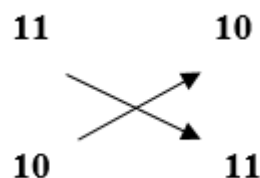
- a) 20 b) 25 c) 21 d) 33

ANS: c) 21

Solution:



$$= \frac{ad - bc}{ad} * 100$$



$$= (121 - 100) / 100$$

$$= (21/100) * 100$$

$$= 21$$



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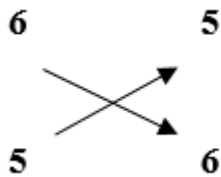
Name of the Bundle	Advanced Bundle V1	Subject	APTITUDE
Topic	PROFIT AND LOSS	Last updated on	14 August 2025

38) A person purchased 6 articles for ₹ 5 & sold 5 articles for ₹ 6.
Find his Profit/Loss.

- a) 11 b) 44 c) 21 d) 33

ANS: b) 44

Solution:



$$= (36 - 25) / 25$$

$$= (11/25) * 100$$

$$= 44$$