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Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Торіс	PROFIT AND LOSS	Last updated on	11 January 2024

GENERAL FORMULAE

- GAIN % = $\frac{MN MN}{MN} \times 100\%$
- LOSS % = $\frac{MM MM}{MM} \times 100\%$



CP x (100+P) = MP x (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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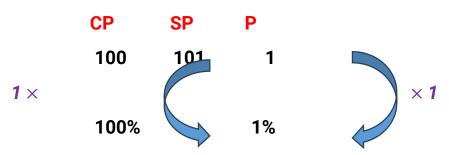
1) Find gain percent if C.P=100, S.P = 101.

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

Ans: a) 1

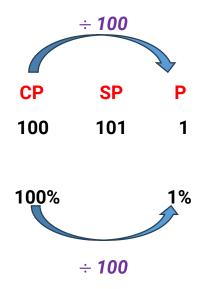
SOLVING BY RATIO CONCEPT

Method 1



Method 2

BY COMPARING C.P AND PROFIT



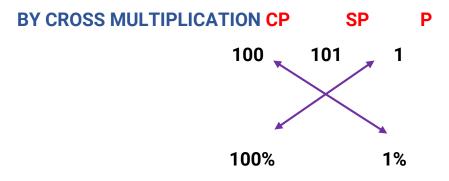
IT Support and Development Training Programme Creating Employable Engineers and Entrepreneurs



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Method 3

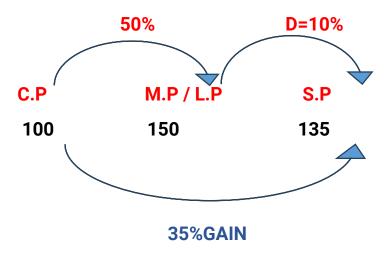


2) A merchant marks up the price by 50% and sells it at a discount of 10%. Then find the overall gain or loss.

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 1/9%.

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

Ans: b) 44.44%

SOLUTI	ON:		
MP	SP	(MP-SP)	
8	5		
9 —	8		
9	5	4	
100%		44.44% ANS	

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

a) 1000		b)2000		c)1400	d)1500
Ans: c)140	0				
SOLUTION	:				
MP	SP				
8	7				
9	8				
10 —	9				
10	7		4		
200				200	
2000			1400	ANS	

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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.

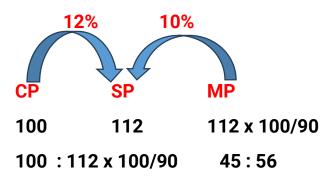
a) 5: 12	b) 45: 56	c) 10: 9	d)6: 5
a, e		•) •••	u) U. U

Ans: b) 45: 56

Method 1

СР		MP
90	:	112
45	:	56

Method 2





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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.

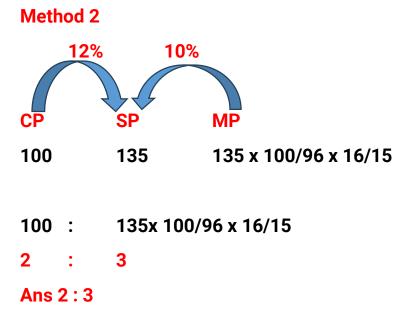
a) 5: 2	b) 4: 5	c) 1: 2	d)2: 3

Ans: d)2: 3

Method 1

СР		MP
96	:	135
16	•	15
6	:	9

Ans 2 : 3





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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.

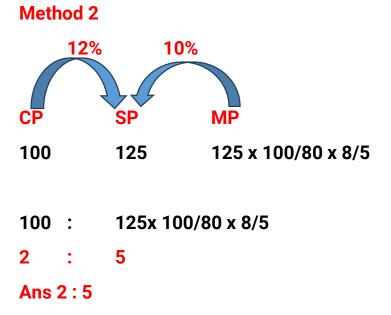
a) 2 : 5	b) 4: 5	c) 1: 2	d)2: 3

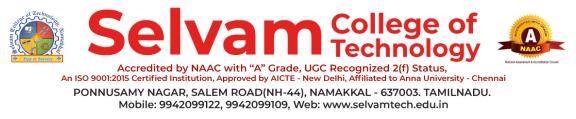
Ans: a) 2 : 5

Method 1

СР		MP	
80	•	125	
8	:	5	
10	•	25	

Ans 2 : 5





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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 2/7%.find CP of article.

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

Ans: c) 651

SOLUTIONS:

14 2/	/7%= 1/7	
(MP	= SP)	No Discount means
СР	SP	
7	8	
	C	
651	744	

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%			
Solution	ns:			
СР	SP	р		
200	350	150		
100%	v	75%		



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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%			
Solutio	ns:			
СР	SP			
850	680	170		
100%		20%		

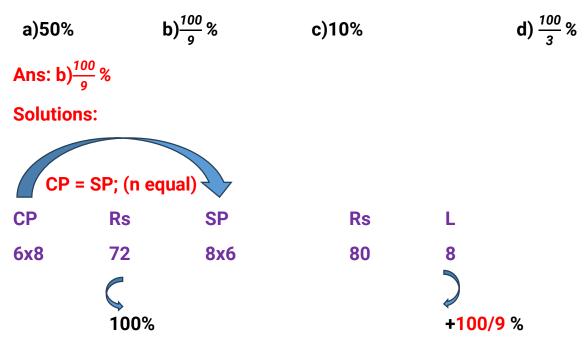
11) Salim bought an article for Rs 784 which included GST of 12%. What was the price of the article before GST was added?

a)700	b)650	c)550	d)600
Ans: a)	700		
Solution	IS:		
СР	CP WITH GST		
100%	112%		
ζ	$\boldsymbol{\zeta}$		
700	784		



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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.





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Торіс	PROFIT AND LOSS	Last updated on	11 January 2024

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)1	0%				
Solution	s:				
CP =	SP; (n equ	Jal)			
СР	Rs	SP	Rs	L	
6x10	80	6x10	72	8	
	C			\mathbf{c}	
	100%			- 10 %	

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% ga	in	b)33	c) 50% loss	d) 33
Ans: a)50%	% gain			
Solutions:				
15 CP = 1	0 SP			
СР	SP	Р		
10	15	5		
$\boldsymbol{\varsigma}$	\subseteq			
100%		+ 50%		



Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Торіс	PROFIT AND LOSS	Last updated on	11 January 2024

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.1	92	b) Rs.200	c) Rs.180	d) Rs.164
Ans: b)	Rs.200)		
Solution	is:			
СР	SP	Р		
5	6	1		
200	240			

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%			
MP	SP	L		
1500	1350	150		
100%	$\boldsymbol{\varsigma}$	10%		



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Торіс	PROFIT AND LOSS	Last updated on	11 January 2024

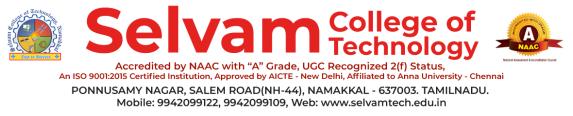
17) A man bought a bicycle for rs.1250. He spent Rs.250 on its repairs. He then sold it for rs.1350. Find his gain or loss percentage

a) 30%	b) 12%	c) 20%	d)10%
Ans: d)10%			

CPSPL15001350150NOTE CP= bought + REPAIRS $\int_{100\%}$ $\int_{10\%}$ $\int_{10\%}$

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

a) Rs.4	50	b) Rs.420	c) Rs.400	d) Rs.480
Ans: a) I	Rs.450			
MP	SP			
450	360			
C 100% <mark>80</mark>	%			



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Торіс	PROFIT AND LOSS	Last updated on	11 January 2024

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 x 90/10	0		
=99/100			
=1% LOSS			
METHOD 2			
= +10-10 +10 x -	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 x -10/100			
=1% LOSS			
100% ==== 10000			
99% ===== <mark>9900</mark>			
Rs.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

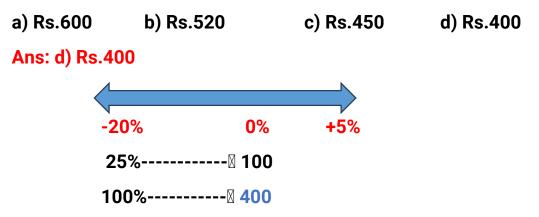
= -20-10 (-20 x -10/100)

=-28%

100-28 = 72%

72% 100%

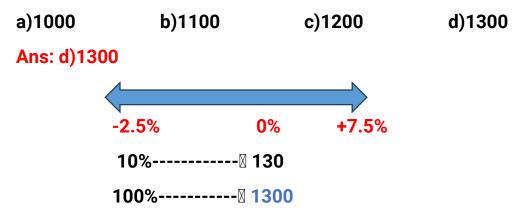
22) A shopkeeper sold an article at a 20% loss. If he could sell 100 more, his profit would have been 5%. Find the cost price?





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



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

a) 10%		b) 1	1 1/9%	c) 12.5%	d) 14 2/7%
Ans: a)	10%				
Solutio	n:				
СР	SP	L			
80	72		8		
100%	$\boldsymbol{\varsigma}$	10%			



Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Торіс	PROFIT AND LOSS	Last updated on	11 January 2024

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) 1	 4 2/7%			
Solution	:			
СР	SP	L		
63	72	9		
5 100%	$\boldsymbol{\varsigma}$	14 2/7%		

26) A man sell 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 x -5/100

=0.25% Loss



Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Торіс	PROFIT AND LOSS	Last updated on	11 January 2024

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 transaction.

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

Ans: a) no loss no gain

If Cost price of two articles is the same and the percentage of loss and gain is same, then there will be no loss or 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

Solution:

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

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X=260
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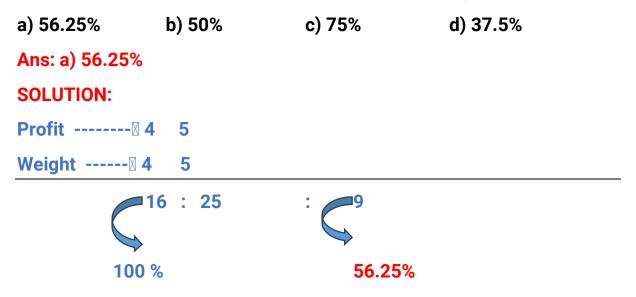


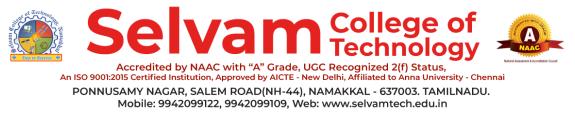
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29) A shopkeeper promises to sell his good at cost price but uses 800gm weight for 1kg. find the profit.

a) 10%		b) 20%	c) 25%	d) 50%
Ans: c) 25	5%			
SOLUTIO	N:			
СР	Ρ			
800	200			
\subseteq	$\square \rightarrow$			
100%	25%			

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





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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 the gain 1% on the whole transaction the find the cost price of horse.

a)2400	b)2000	c)3000	d)1600
Ans: d)1600			
SOLUTION:			
10%	- 5%		
1%			
6	_9		
2	3	2+3	
1600	2400	4000	



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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 gain Rs 800 more. find the difference in cp of book and pen

a) 4000	b) 6000	c) 8000	d) 5000
Ans: c) 8000			
SOLUTION:			
(40-30)% ⊠	10% = 800)	
	100% = 80	00	

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 gain Rs 80 more. find their individual cost prize if he purchased book and pen for Rs 25000

a) 11500 &13500		b) 1	3500 & 11500
c) 12500 &12500			d) 17000 & 13000
Ans: a) 11500 &13500			
SOLUTION:			
B + P = 25000	(17-13)%		4% = 80
B – P = 2000			100% = 2000
2P = 23000			

P = 11500 & B = 13500



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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	15 G	= 300	
5G	5% G	= 180	
	20 % Table	= 480	
	100%	= 2400	