

# PROFIT & LOSS Part 1



# Profit & loss

Basic Terms & Formulas Sersion I 5 yaucties Servia III Servia IV 7-8 vanieties Marked Price Dishonest Salesman



### UNDERSTANDING BASIC TERMS

**CP (Cost Price)** 

The price at which we buy things.

SP (Selling Price)

The price at which we sell things.

If SP > CP

Profit = SP - CP

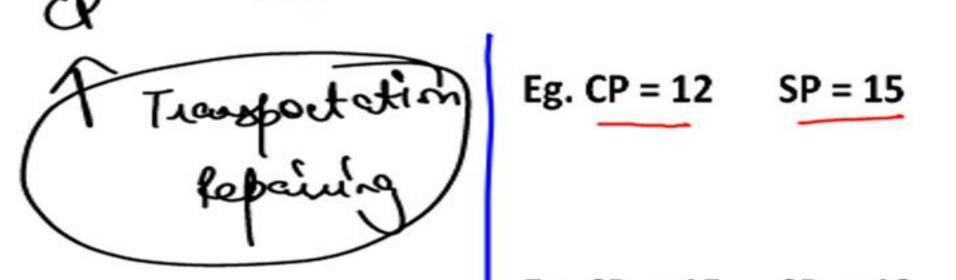
If CP > SP

Loss = CP - SP



### Profit and Loss % are always calculated on CP.

CP



Profit % = 
$$\frac{3}{12} \times 100$$
  
=  $25\%$ 

g. 
$$CP = 15$$
  $SP = 12$ 



## Basic scenario of Profit / Loss %.

	СР	SP	PROFIT/LOSS %
I	✓	✓	?
11	✓	?	✓
III	?	✓	✓



Eg1. CP = 512, SP = 192, find profit/loss %.

$$low = 512-192$$

$$= 320$$

$$low'/, = -\frac{320}{5128} \times 100$$

$$= 62.5\%$$



Eg2. If 
$$\frac{CP}{SP} = \frac{4}{5}$$
, find (i) Profit (ii) Profit%

(ii) 
$$CP \rightarrow 4\times$$
 $SP \rightarrow 5\times$ 

$$GA'+ Le determined$$
(iii)  $X \cdot 100 = 25\%$ 



Eg3. If CP = 420, profit % = 15. Find SP.



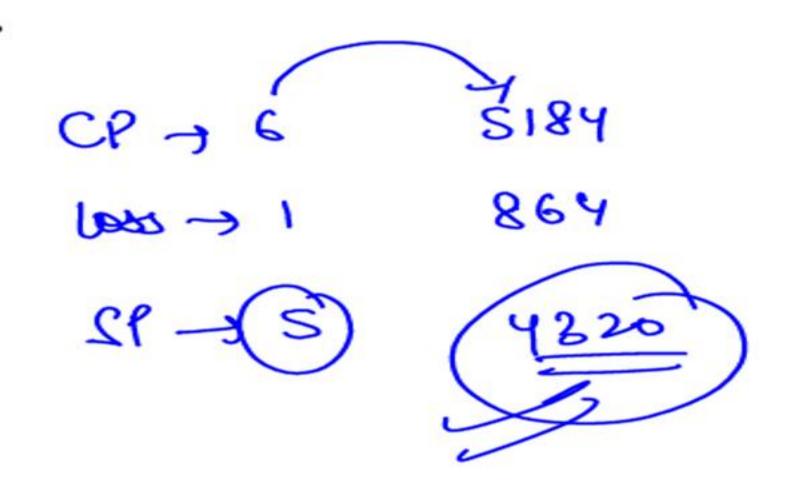


Eg5. If SP = 720, loss % = 25. Find CP



Eg6. If CP = 5184, loss 
$$\% = 16\frac{2}{3}$$
.

Find SP.





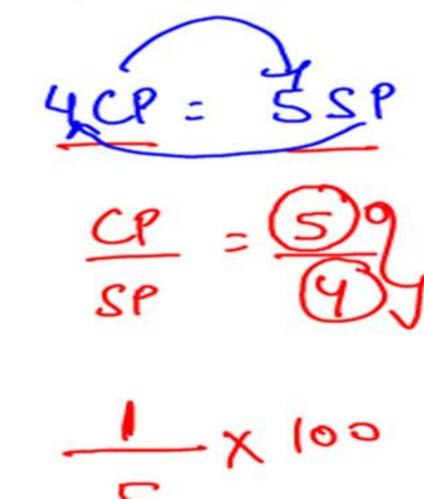
Eg7. If SP = 1485, profit % = 37½. Find CP.



eg

# Q1. CP of 4 articles is equal to SP of 5 articles. Find profit/loss %.

7CP = 9SP CP 399 SP SP 375







gradeup Ans. 284% Profit



Eg. CP of 8 articles is equal to SP of 5 articles. Find profit/loss %.



$$300SP - 300CP = 50CP$$
 $360SP = 380CP$ 
 $CP = 6$ 
 $SP = 7$ 
 $SP = 7$ 

Q2 (a). By selling 300 articles a shopkeeper gains the cost price of 50 articles. Find his gain%.



gradeup Ans.  $16\frac{2}{3}\%$  Profit



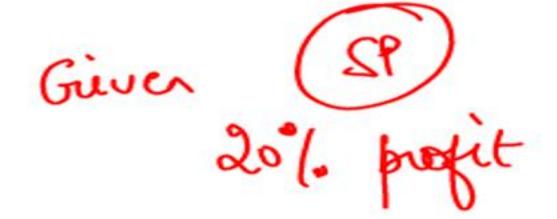
Q2 (b). By selling 300 articles a shopkeeper losses the SP of 50 articles. Find the loss%.

$$SP = 300$$
 $SP = 300$ 
 $CP = 350$ 
 $SO = 500$ 
 $SO = 500$ 



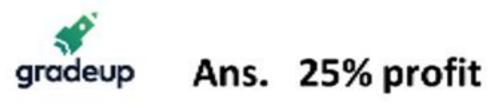
gradeup Ans.  $14\frac{2}{7}\%$  loss





Q3 (a). If a person calculates his profit % on SP and according to him, his profit % is 20. Find his actual profit %.

2014





Q3 (b). If a person calculates his loss % on SP and according to him, his loss % is 37.5. find his actual loss %.

$$=\frac{3}{11} \times 100$$

$$=\frac{27^{3}}{11} / 6 \text{ lock}$$

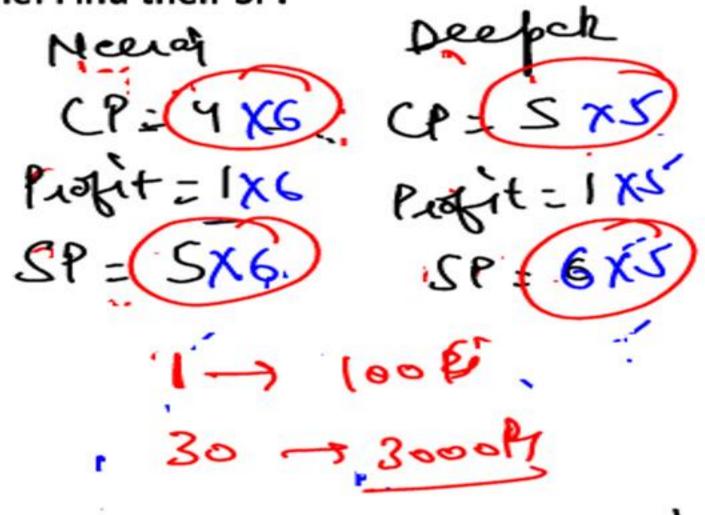


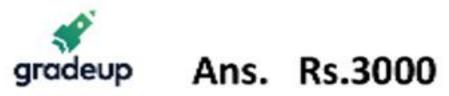
gradeup Ans.  $27\frac{3}{11}\%$  loss



SP-) some

Q3 (c). There are 2 friends Neeraj and Deepak. Neeraj calculates his profit % on SP whereas Deepak calculates his profit % on CP. If both claim to make 20% profit and the difference between there actual profit is Rs.100 and the SP of both is same. Find their SP.



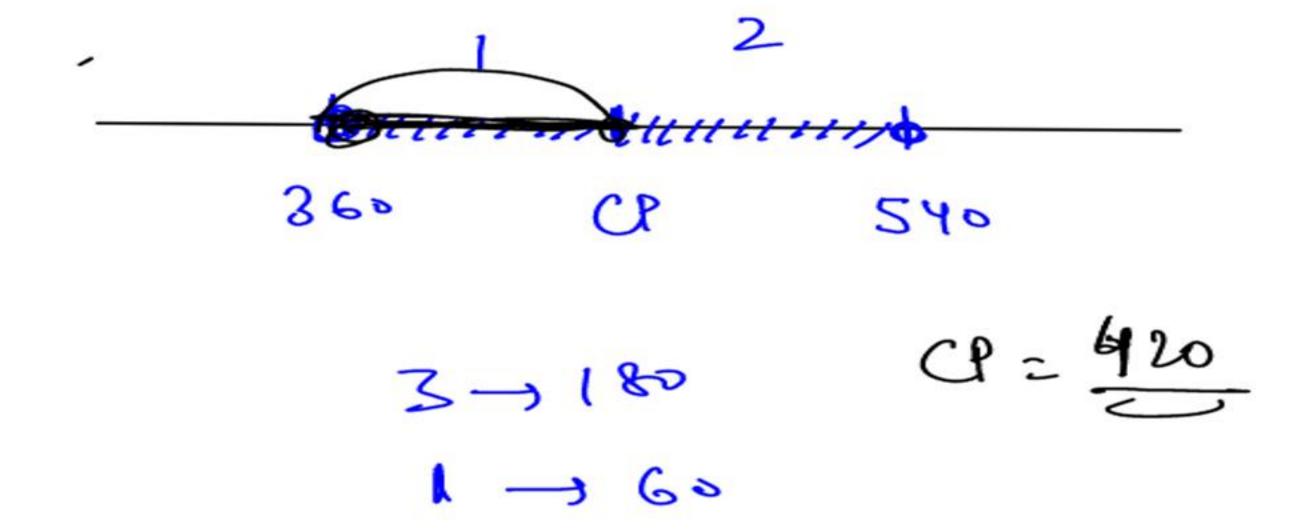


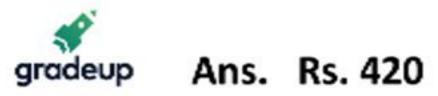
gradeup 
$$J^{84}$$
  $SP_1 = 540$   $SP_2 = 360$   $CP = X$   $CP = X$   $Prefit = 540-X$   $CP = X - 360$   $(540-X) = 2(X-360)$   $3X = 1260$ 

X = 420

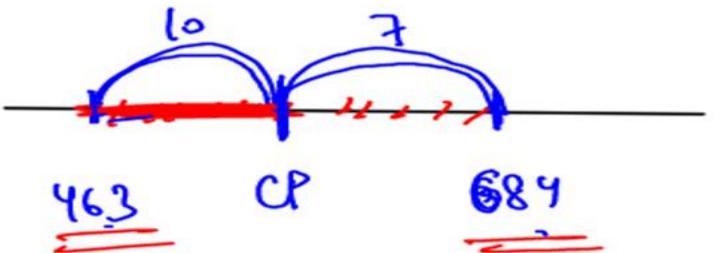
Q4 (a). On selling an article at Rs.540, the profit obtained is twice of the loss incurred on selling the same article at Rs.360. Find the CP of article.





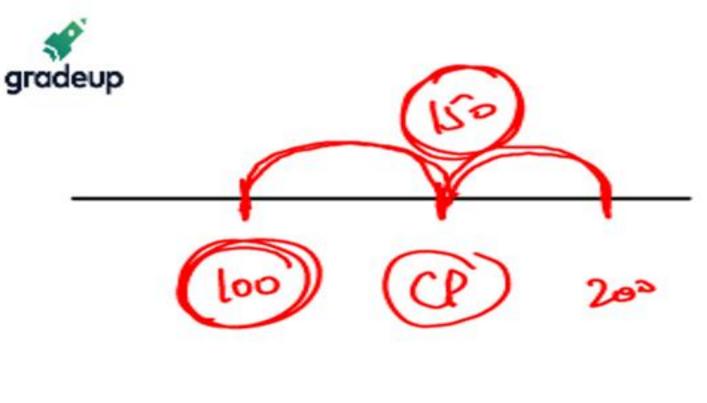






Q4(b). On selling an article at Rs.684, the profit obtained is 30% less then the loss incurred on selling the same article at Rs.463. Find the CP of article.





Q4 (c). If the selling price of an article is doubled, then its loss percent is converted into its profit%. Find the loss % on the article.

(b) 
$$26\frac{2}{3}\%$$

$$\frac{50^{1}}{50^{2}}$$
.  $\frac{100}{50^{3}}$ 





(1) If CP of two articles is same, one is sold at a profit of p% and other is sold at a loss of p%. Then in the overall transaction:

Neither profit nor loss

(2) If SP of two articles is same, one is sold at a profit of p% and other is sold at a loss of p%. Then in the overall transaction:

Loss of:

$$\frac{p^2}{100}$$
%



Eg. CP of 2 articles is same. One is sold at a profit of 20% and other at a loss of 20%. Then in the overall transaction = ??

Neither Profit von Loss



9°/, 6000



II\_

25% profit

20% (00)

Q5 (a). If SP of two articles are same, one is sold at a profit of 25% and other is sold at a loss of 20%. Find his profit/loss %.



gradeup Ans.  $2\frac{18}{41}\%$  loss



Profit (163%) 
$$(63\%)$$
 Q5 (b). If SP of two articles are same, one is sold at a profit of  $16\frac{2}{3}\%$  and other is sold at a loss of  $11\frac{1}{9}\%$ . Find his profit/loss %.

$$CP_1 = \frac{6x8}{2x8} CP_2 = \frac{9x7}{2x7} CP = 1119$$
  
 $SP_1 = 7x8 SP_2 = 8x7 SP = 112$ 



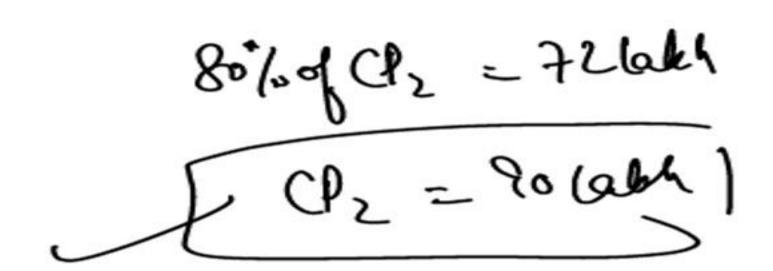
gradeup Ans.  $\frac{100}{111}\%$  profit



120% of CP1 = 726h

(1- Golder)

Q5 (c). A person sold a house and a shop each for Rs. 72 lakhs. On selling the house, he gains 20% and on selling the shop he losses 20%. Find his overall profit/loss (in terms of Rupees).



(Der -> 6 (Deh)



Ans. Rs. 6,00,000 Loss

SP - Same

20% profit 20% 600

Overall -> 7% loss



Sahi Prep Hai Toh Life Set Hai

Practise topic-wise quizzes

Keep attending live classes



