

GOUR INSTITUTE

PSC, Bank (Clerk/PO), SSC, Railways, S.I., Classes

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F - 12, City Bazar, Thatipur, Gwalior (M.P.) www.gourinstitute.in

PROFIT AND LOSS

INTRODUCTION

IMPORTANT FACTS

Cost Price:

The price, at which an article is purchased, is called its cost price, abbreviated as C.P.

Selling Price:

The price, at which an article is sold, is called its selling prices, abbreviated as S.P.

Profit or Gain:

If S.P. is greater than C.P., the seller is said to have a profit or gain.

Loss:

If S.P. is less than C.P., the seller is said to have incurred a loss.

IMPORTANT FORMULAE

1. $\text{Gain} = (\text{S.P.}) - (\text{C.P.})$

2. $\text{Loss} = (\text{C.P.}) - (\text{S.P.})$

3. Loss or gain is always reckoned on C.P.

4. Gain Percentage: (Gain %)

$$\text{Gain \%} = \left(\frac{\text{Gain} \times 100}{\text{C.P.}} \right)$$

5. Loss Percentage: (Loss %)

$$\text{Loss \%} = \left(\frac{\text{Loss} \times 100}{\text{C.P.}} \right)$$

6. Selling Price: (S.P.)

$$\text{SP} = \left[\frac{(100 + \text{Gain \%})}{100} \times \text{C.P.} \right]$$

7. Selling Price: (S.P.)

$$\text{SP} = \left[\frac{(100 - \text{Loss \%})}{100} \times \text{C.P.} \right]$$

8. Cost Price: (C.P.)

$$\text{C.P.} = \left[\frac{100}{(100 + \text{Gain \%})} \times \text{S.P.} \right]$$

9. Cost Price: (C.P.)

$$\text{C.P.} = \left[\frac{100}{(100 - \text{Loss \%})} \times \text{S.P.} \right]$$

10. If an article is sold at a gain of say 35%, then S.P. = 135% of C.P.

11. If an article is sold at a loss of say, 35% then S.P. = 65% of C.P.

12. When a person sells two similar items, one at a gain of say $x\%$, and the other at a loss of $x\%$, then the seller always incurs a loss given by:

$$\text{Loss \%} = \left(\frac{\text{Common Loss and Gain \%}}{10} \right)^2 = \left(\frac{x}{10} \right)^2.$$

13. If a trader professes to sell his goods at cost price, but uses false weights, then

$$\text{Gain \%} = \left[\frac{\text{Error}}{(\text{True Value}) - (\text{Error})} \times 100 \right] \%$$

PROFIT AND LOSS

EXERCISE

01. An article costing Rs.70 was sold for Rs.90. What is the gain or loss -
(a) 25 Rupees (b) 20 Rupees (c) 35 Rupees (d) 30 Rupees (e) None
02. An article costing Rs.40 was sold for Rs.50. Gain percentage is -
(a) 25 % (b) 30 % (c) 45 % (d) 40 % (e) None
03. A book costing Rs.90 was sold for Rs.50. What is loss percentage -
(a) 44.44 % (b) 30.55 % (c) 41.50 % (d) 55.40 % (e) None
04. A man bought an article for Rs.50 for how much, should he sell it so as to gain 25% -
(a) 62.50 Rupees (b) 35.10 Rupees (c) 42.50 Rupees (d) 48.00 Rupees (e) None
05. A man bought an article for Rs.60, for how much shall he sell it so as to loss 50% -
(a) 30 Rupees (b) 35 Rupees (c) 42 Rupees (d) 48 Rupees (e) None
06. By selling an article for Rs.80, a tradesman would gain 5%. At what price must he sell it to gain 6% -
(a) 89.20 Rupees (b) 95.00 Rupees (c) 50.00 Rupees (d) 68.00 Rupees (e) None
07. By selling an article for Rs.20, a man would gain 5%. At what price must he sell it to gain 10% -
(a) 30.56 Rupees (b) 35.21 Rupees (c) 20.95 Rupees (d) 41.80 Rupees (e) None
08. An article is sold at a gain of 6%. If it had been sold for Rs.50 more 11% would have been gained. The cost price of an article is -
(a) 3000 Rupees (b) 3100 Rupees (c) 1200 Rupees (d) 1000 Rupees (e) None
09. A man bought an article for Rs.900 and sold it out at 20% discount and gain 10%. Find out the print price.
(a) 1237.5 Rupees (b) 1102.0 Rupees (c) 1200.45 Rupees (d) 1030.5 Rupees (e) None
10. A man sells an article for Rs.50 and gained 2%. If he required 18% profit then S.P. will be -
(a) 85.10 Rupees (b) 52.67 Rupees (c) 12.40 Rupees (d) 40.20 Rupees (e) None
11. On selling an article for Rs.90, a trader losses 10% In order to gain 10% he must sell that article for -
(a) 851 Rupees (b) 567 Rupees (c) 110 Rupees (d) 420 Rupees (e) None
12. The percent profit made when an article is sold Rs.200. then as when it is sold for Rs.50. the loss is -
(a) 85 Rupees (b) 50 Rupees (c) 40 Rupees (d) 20 Rupees (e) None
13. If the C.P. of 14 article is equal to S.P. of 20 article. The gain or loss percentage is -
(a) 10 % (b) 50 % (c) 40 % (d) 30 % (e) None
14. A man sell 25 articles and gain is equal to S.P. of 20 articles. Find gain percentage -
(a) 100 % (b) 200 % (c) 400 % (d) 300 % (e) None
15. C.P. of 20 articles is equal to S.P. of 14 articles. The gain or loss percentage is -
(a) 42.85 % (b) 50.50 % (c) 45.80 % (d) 30.80 % (e) None
16. C.P. of an article for Rs.5000, a trader allows 15%, The mark price will be -
(a) 6388.88 Rupees (b) 5548.47 Rupees (c) 44587.2 Rupees (d) 1234.32 Rupees (e) None
17. On selling an article for Rs.500 a trader losses 8%, In order to gain 10 % , he must sell that article for -
(a) 597.83 Rupees (b) 545.25 Rupees (c) 405.68 Rupees (d) 366.45 Rupees (e) None
18. On selling an article for Rs.50 a trader losses 10%, In order to gain 10 % , he must sell that article for -
(a) 50.00 Rupees (b) 61.10 Rupees (c) 65.00 Rupees (d) 66.00 Rupees (e) None

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ANSWER SHEET

PROFIT AND LOSS EXERCISE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
B	A	A	A	A	A	C	D	A	B	C	B	D	C	A	A	A	B