CHAPTER PROFIT/LOSS

Topics to be covered with examples:

- Concept of Cost price, Selling price
- Concept of profit and loss
- Concept of Market price/tag price
- Concept of discount and successive discount
- Percentage profit / Percentage loss / Discount concept
- Unitary method explanation
- Solving words problem involving CP/SP/P/L
- Solving word problems involving CP/SP/MP/P/L/Discount

1. A book costing 15 P was sold 18 P. what is the gain or loss percent?

2. If oranges are bought at 11 for 10 P and sold at 10 for 11 P, what is the gain or loss percent?

3. A dishonest dealer professes to sell his goods at cost price but uses a weight of 875 grams for the kilogram weight. His gain percent is_____.

4. A man buys milk at 60 P per litre, adds s one-third of water to it and sells the mixture at 72 P per litre. The profit percent is_____.

5. What profit percent is made by selling an article at a certain price, if by selling at two-third of that price there would be a loss of 20%?

6. By selling oranges at 32 a rupee, a man loses 40%. How many a rupee must he sell to gain 20 p.c. ?

7. The cost price of 16 articles is equal to the selling price of 12 articles. The gain or loss percent is_____.

8. A shopkeeper bought a table marked at Rs.200 at successive discount of 10% and 15% respectively. He spent Rs.7 on transport and sold the table for Rs.208. find his profit percent.

9. A merchant sold his goods for Rs.75 at a profit percent equal to the cost price. His cost price is_____.

10. I purchased a box full of pencils at the rate of 7 for Rs.5 and sold the whole box at the rate of 9 for Rs.8. in this process I gained Rs.44. how many pencils were contained in the box?

11. A watch costing Rs.120 was sold at a loss of 15%. The selling price is_____.

12. If mangoes are bought at 15 a rupee, how many must be sold for a rupee to gain 25%?

13. Find the cost price if, by selling goods for Rs.279, a merchant loses 7 per cent.

14. A man sells two watches for Rs.99 each. On one he gained 10% and on the other he lost 10%. His gain or loss percent is_____.

15. By selling goods for Rs.153, a man loses 10%. For how much should he sell then to gain 20%?

16. By selling goods for Rs.240, a merchant gains 25%. How much percent would he gain by selling it for Rs.216?

17. I lose 9 percent by selling pencils as the rate of 15 a rupee. How many for a rupee must I sell them to gain 5 percent?

18. Goods are sold so that when 4 percent is taken off the list price, a profit of 20% is made. How much percent is the list price more than the cost price?

19. A watch was sold at a loss of 10 percent. If it were sold for Rs.70 more, there would have been a gain of 4 percent. What is the C.P of the watch?

20. A man sells an article at 5% profit. If he had bought it at 5% less and sold it for Rs.1 less, he would have gained 10%. Find the cost price.

21. If an item is sold at 10% gain instead of 10% loss the seller gets Rs7.80 more. The cost price of the article is?

a)39   b)42   c)40   d) 44   e)none

22. The selling price and cost price of an article is differ by Rs360. If the profit percentage is 20, what is the selling price?

a)1840   b)1800   c)2000   d) 2160   e)none

23. A shopkeeper professes to sell all article at a discount of 20%, but increase the selling price of each article by 30% his gain on each article is?

a) 6%   b) 4%   c)5%   d) 7%   e)none

24. A person sells an article for Rs480 at a loss of 20% Find at what price should he sell the same article to gain?

a) 600 b) 750 c) 840 d) 960 e) none

25. A dealer sold two third of his items at a gain of 20% and the remaining at cost price. Find the gain earned by him in the whole transaction?

a) $12\frac{1}{3}\%$ b) $13\frac{1}{3}\%$ c) $15\frac{2}{3}\%$
d) $20\frac{3}{4}\%$ e)none

26. $\frac{1}{5}$ of commodity is sold at 25% profit, $\frac{1}{4}$ is sold at 30% profit and the rest at 20% profit. If a total profit of Rs94 is earned, then find the value of the commodity?

a) 395 b) 390 c) 450 d) 400 e) none

27. A man buys two puppies for Rs2700. He sells one so as to lose 12% and the other so as to gain 15%. On the whole he neither gains nor losses. What is the cost of second puppy?

a)1500 b)1200 c)1800

d) 900 e)none

28. The cost price of two bikes is the same. One is sold at a profit of 20% and the other for Rs4800 more than the first. If the net profit is 25%, find the cost price of each bike?

a) 48000 b) 42500 c) 36000 d) 32000 e) none

29. A man bought a bullock and a cart for Rs5000. He sold the bullock at a gain of 30% and the cart at a loss of 20%, thereby 2% on the whole. Find the cost of the bullock.

a) 2000 b) 2100 c) 2200 d) 2400 e) none

30. A seller uses 930gm in the place of one kg to sell his goods. Find his actual % profit or loss. When he sells his article on 3% gain on cost price?

 a) $8\frac{70}{93}$ b) $9\frac{10}{93}\%$ c) $10\frac{70}{93}\%$ d) $20\frac{3}{4}\%$ e)none

31. A dishonest dealer professes to sell his item at cost price, but he uses a weight of 980gm for a kg weight find the gain percent.

a) $2\frac{3}{49}\%$ b) $2\frac{2}{49}\%$ c) $15\frac{2}{3}\%$ d) $20\frac{3}{4}\%$ e)none

32. A grocer sells sugar at a profit of 5% and uses a weight which is 10% less. Find his total percentage gain?

a)14.5%   b)15.75%   c)16.67%   d) 18%   e)none

33. A dishonest businessmen professes to sell his goods at cost price but he uses a false weight with which he cheats by 20% while buying and by 20% while selling. Find profit percentage?

a) 60%　　　　　　b) 40%　　　　　　c) 50%　　　　　d) 80%　　　　　e) none

34. The cost price of 20 article is equal to the selling price of 18 articles. Find the profit percent.

a) $5\frac{1}{9}\%$　　　　　　b) $9\frac{1}{9}\%$　　　　　　c) $11\frac{1}{9}\%$

d) $20\frac{3}{4}\%$　　　　e) none

35. Jessi bought a laptop with 10% discount on the marked price. Had he bought it with 20% discount he would have saved Rs2500. At what price did he buy the laptop?

a) 35,000　　　b) 30,000　　　　　　c) 25,000　　　　　d) 22,500　　　　e) none

36. Richard buys an item with 15% discount on its listed price. He makes a profit of 40% by selling it at Rs 1190. The listed price is?

a) 750   b) 875   c) 900   d) 1000   e) none

37. What price should a shopkeeper mark on an item costing him Rs174, to gain 25% after allowing a discount of 25%?

a) 324   b) 290   c) 184   d) 192   e) none

38. A manufacturer makes a profit of 15% by selling a colour TV for Rs5750. If the cost of manufacturing increased by 30% and the price paid by the retailer is increased by 20%, find the profit percent made by the manufacturer?
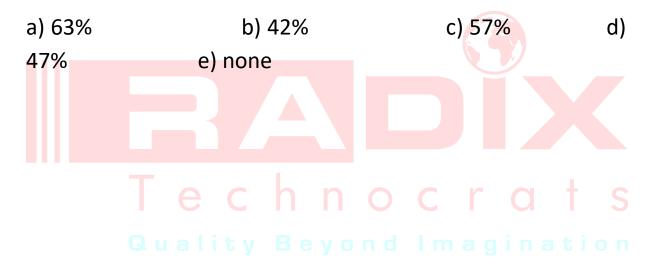
a) $6\frac{2}{13}\%$ b) $4\frac{8}{13}\%$ c) $6\frac{1}{13}\%$
d) $7\frac{4}{13}\%$ e)none

39. Ram makes 750 articles at a cost of 60 paisa per article. He fixes the selling price such that if only 600 articles are sold, he would have made a profit of 40% on the outlay. However, 120 articles got spoilt and he was able to sell 630 articles at this price. Find his actual profit percent as the percentage of total outlay assuming that the unsold articles are useless?

a) 63%　　　　　　b) 42%　　　　　　c) 57%　　　　d) 47%　　　　　e) none

40. David sells his laptop to Golinath at a loss of 20% who subsequently sells it to Hercules at a Profit of 25%. Hercules, after finding some defect in the laptop, returns it to Golinath but could recover only Rs4.5 for every Rs5 he had paid. Find the amount of Hercules loss if David had paid Rs1.75 lakh for the laptop?

 a) 3,500　　　b) 2,500　　　　　　c) 17,500　　　　d) 22,500　　　e) none

41. A trader offers to give two articles free for every 10 articles I purchase. I get a total of 10 articles free for my purchase and I sell them all at a rate such that I get back my investment from the sale of just 10 of the articles. What is my overall percentage of profit?

1) 100%   2) 150%   3) 500%   4) 250%   e) none

42. A mechanic purchases a cooler for Rs.32000 and incurs Rs.13000 on installation and repairs. After one year he sold it for Rs.40000. What is the profit or loss percentage, if the deprecation rate of the machine is 20% per annum?

1) 81/3%   2) 121/12%   3) 161/4%   4) 100/9%   5) none

43. 5kg of ghee was bought by Venu for Rs.300. One kg becomes spoilt. He sells the remaining in such a way that on the whole he incurs a loss of 10%. At what price per kg does he sell the ghee?

1) Rs.46.25   2) Rs.45.70   3) Rs.46.60   4) Rs.67.50   5) none

44. The catalogue price of an article is Rs.15000. If the discount is increased from 15% to 20%, then profit falls from 27.5% to 20%. Find the cost price of the article?

1) Rs.12000   2) Rs.10000   3) Rs.12250   4) Rs.1750   5) none

45. A fruit vendor sells mangoes and bananas and gets equal revenue from each. He gets a profit of 20% on each mango and a profit of 25% on each banana. If the ratio of the number of bananas sold to the number of mangoes sold is 4:1, what is the ratio of the cost price of a banana to that of a mango?

a) 1:5   b) 6:2   c) 2:9
d) Can't be determined   5)none

46. A trader buys 150 pens for Rs.1000 and he marks each of them at Rs.10. He gives a discount of 20% on each pen and he gives 1 pen free on bulk purchases of 9 pens. What is his minimum possible overall percentage of profit?

a) 8%   b) 10%   c) 20%   d) 5%   5) none

47. Jawed sells 2,000 mangoes in a week. He recovers his total cost by selling first 1,200 Mangoes. He sells the next 300 Mangoes for a loss of 20% and he sells the last 500 Mangoes for a loss of 40%. What is his overall percentage of profit?

a) 45%   b) 35%   c) 27%   d) 12.5%
5) None

48. The percentage by which the marked price exceeds the cost price of an article and the percentage of discount allowed on the article are in the ratio of 3:2. If it is sold at the cost price, what is the percentage of discount allowed?

a) 20%   b) 25%   c) 331/3%   d) 50%   5) none