

## Profit and Loss Questions for SBI PO Prelims



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## Profit and Loss Questions for SBI PO Prelims

### Profit and Loss

1. A shopkeeper gives two successive discounts of 10% and 20% on the marked price of shirt. If he received the profit is  $\frac{1}{10}$  of the total discount, then find the approximate profit percentage?

- A.2%
- B.4%
- C.6%
- D.8%
- E.10%

2. The marked price of the bulb is 60% more than its cost price. A shopkeeper offers a discount of  $x\%$  on marked price of the bulb while he gets the profit of 36%. Find the value of  $x$ ?

- A.10
- B.15
- C.18
- D.12
- E.20

3. The shopkeeper sold the watch at the profit of 20% and the cost price of watch is Rs.3600. He earns  $x\%$  profit on pendrive costing Rs.3000. If the overall profit on selling both watch and pendrive is 25%, then find the value of  $x$ ?

- A.24%
- B.27%
- C.29%
- D.31%

E.33%

4. Sum of the selling price of mobile and watch is Rs.9000. Ratio of the discount offered by shopkeeper on mobile and watch is 1:3. If the sum of the marked price of mobile and watch is Rs.15000, then find the discount offered by shopkeeper on watch?

- A.Rs.4500
- B.Rs.4200
- C.Rs.3600
- D.Rs.4800

E.Rs.33005 . Ragu, Ragava and Rishi started the business and invested their money in the ratio of  $\frac{1}{12}:\frac{1}{15}:\frac{1}{9}$  and for time period in the ratio of  $\frac{1}{8}:\frac{1}{6}:\frac{1}{4}$ . If Rishi's share out of profit at the end of year is Rs.4800, then what is the total profit of the business?

- A.Rs.8220
- B.Rs.8320
- C.Rs.8420
- D.Rs.8520

E.Rs.88206. What will be the percentage profit after selling the Perfume at Rs. $x$  if there is a loss of 20% when the perfume is sold at two-third of  $x$ ?

- A.20%
- B.25%
- C.30%
- D.40%



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E.35%

7. Ram and Janu sold their TV at Rs.14000 each, but Ram faced a loss of 10%, while Janu gained 30%. What is the ratio of the cost price of the TV sold by Ram to that of Janu?

A.12: 7

B.13: 9

C.14: 3

D.19: 7

E.None of these

8. Ratio of the marked to cost price of the Plane is 6:5 and the ratio of the marked to selling price of the plane is 12:11. What is the profit percentage of the plane?

A.8%

B.10%

C.6%

D.15%

E.12%

9. The shopkeeper offers a discount of 20% on marked price of laptop and the ratio of the marked price of the laptop to mobile is 3:1. If the shopkeeper offers a discount of 10% on marked price of mobile while he gets the profit of 20% and the selling price of the laptop is Rs.14400, then find the cost price of the mobile?

A.Rs.4000

B.Rs.4500

C.Rs.5000

D.Rs.6000

E.Rs.3000

10. A seller makes 10% profit when he gives 12% discount on marked price of his pencil box. After sometimes, he begins to provide 10% discount on its marked price. Now what is his percentage of profit?

A.12%

B.12.5%

C.13%

D.13.5%

E.None of these

11. Dress A is sold at 10% discount and earned a profit of Rs.525. Dress B is sold at 20% profit for Rs.840. Find the marked price of Dress A, if Cost price of dress A is 5% more than the cost price of Dress B.

A.Rs.1400

B.Rs.1700

C.Rs.2100

D.Rs.2900

E.None of these

12. A shopkeeper earned a profit equal to cost price of 3 items while selling 18 items at actual profit. If each item is marked 25% above its actual cost and Rs.40 discount is given while selling then what is the difference between Cost price and profit.

A.Rs.720





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B.Rs.240

C.Rs.400

D.Rs.360

E.Rs.480

13. The selling price of the Laptop is 40% more than the selling price of the mobile and the selling price of the watch is 40% less than the selling price of the mobile. If the selling price of the laptop is Rs.4000 more than the selling price of the mobile, then what is the average of the selling price of the watch and mobile?

A.Rs.2000

B.Rs.4000

C.Rs.6000

D.Rs.5000

E.None of these

14. If the profit earned on selling an article for Rs.2400 is 75% of the loss incurred on selling the same article for Rs.1700, then find the selling price of the article earn a profit of 20%?

A.Rs.2540

B.Rs.2580

C.Rs.2590

D.Rs.2500

E.Rs.2520

15. A toy was sold by the seller after giving a discount of 24% for Rs.114. What is the cost price of the toy if the ratio of marked price to cost price is 5: 7?

A.Rs.200

B.Rs.205

C.Rs.208

D.Rs.210

E.None of these

16. The marked price of cycle and Watch is Rs.2800 and Rs.3000 respectively. If the shopkeeper allows the discount on marked price of the cycle is Rs.800 which is 80% of the discount of watch, then what is the difference between the selling price of watch and cycle?

A.Rs.500

B.Rs.550

C.Rs.600

D.Rs.450

E.None of these

17. The marked price of the Doll is 25% more than its cost price. The shopkeeper offers the discount of Rs.360 on marked price of doll. If the doll sold for Rs.200 more while he gets the profit of 15%, then find the marked price of the doll?

A.Rs.2000

B.Rs.4000

C.Rs.3500

D.Rs.2500

E.Rs.3000

18. The marked price of the table is 25% more than the cost price of the table and the shopkeeper offers



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two successive discounts of 20% and 10% respectively on marked price of the table. If the shopkeeper gets the loss of Rs.1200, then what is the selling price of the table?

- A.Rs.10800
- B.Rs.9600
- C.Rs.11400
- D.Rs.13500
- E.None of these

19. The marked price of a laptop is Rs.16000 and the shopkeeper bought a laptop at the rate of Rs.12500. If the shopkeeper offers a discount of 10% on marked price of the laptop, then what is the percentage of profit earned by shopkeeper?

- A.14.5%
- B.15.2%
- C.16.8%
- D.17.4%
- E.18.9%

20. If the profit earned on selling an article for Rs.2400 is 75% of the loss incurred on selling the same article for Rs.1700, then find the selling price of the article earn a profit of 20%?

- A.Rs.2540
- B.Rs.2580
- C.Rs.2590
- D.Rs.2500
- E.Rs.2520

21. In the Diwali sale, Dinesh expects a profit of 35% on the cost price of his fruits. What will be his profit, if he sells the fruits worth Rs.4050 in a week?

- A.Rs.1050
- B.Rs.2050
- C.Rs.3000
- D.Rs.2800
- E.None of these

22. If a toy is sold at 10% discount, then the amount gained is Rs.80, while if the discount given was 5%, then the amount gained is 100. What is the marked price of the toy?

- A.Rs.200
- B.Rs.400
- C.Rs.500
- D.Rs.700
- E.None of these

23. Renuka purchased a laptop for Rs.10200 from flipkart. If the flipkart sold the laptop at the profit of 20% and the flipkart also offers 20% discount on marked price of the laptop, then what is the difference between the cost and marked price of the laptop?

- A.Rs.4250
- B.Rs.4450
- C.Rs.4860
- D.Rs.4550
- E.None of these



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24. In the Diwali sale, Dinesh expects a profit of 35% on the cost price of his fruits. What will be his profit, if he sells the fruits worth Rs.4050 in a week?

- A.Rs.1050
- B.Rs.2050
- C.Rs.3000
- D.Rs.2800
- E.None of these

25. A toy was sold by the seller after giving a discount of 24% for Rs.114. What is the cost price of the toy if the ratio of marked price to cost price is 5: 7?

- A.Rs.200
- B.Rs.205
- C.Rs.208
- D.Rs.210
- E.None of these

26. After selling a Toy at 50% profit, a seller earned Rs.300. Find the marked price of the toy, if the discount of 20% is given by the seller.

- A.Rs.1000
- B.Rs.1100
- C.Rs.1125
- D.Rs.2500
- E.None of these

27. The profit earned after selling the Toy for Rs.340 is the same as loss incurred after selling the Toy for Rs.278. What is the selling price of the toy at 20% profit?

- A.Rs.370.8
- B.Rs.378.8
- C.Rs.376.8
- D.Rs.380.8
- E.None of these

28. Rahul spends 12% of the salary on transport, 20% on shopping, 40% on house rent and 50% of the remaining on education fee. Now he left with him is Rs.2800. Find Rahul's salary?

- A.Rs.30000
- B.Rs.20000
- C.Rs.40000
- D.Rs.50000
- E.None of these

29. A shopkeeper gives discount of 12.5% on an article and charged 10% for service tax and then he sells article at Rs. 385. Find the selling price of article when discount is 25%?

- A.Rs. 240
- B.Rs. 320
- C.Rs. 360
- D.Rs. 300
- E.None of these

30. Aman buys two articles for Rs. 960. He sells article X at 37.5% loss and article Y at 12.5% profit. In overall transaction there is no profit no loss. Find 50% of cost price of article Y?

- A.Rs. 720



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B.Rs. 360

C.Rs. 420

D.Rs. 840

E.None of these

31. A shopkeeper bought an article at 25% discount. Then he sets a different marked price for the article and allow a discount of 10% and earns a profit of 42%. Find the percentage change in marked price sets by shopkeeper with respect to original marked price of article.

A.17.33%

B.20%

C.19.33%

D.21.33%

E.None of these

32. A shopkeeper sells two refrigerators one at a loss of 25% and the other at a profit of 22%. If the cost price of the loss and profit refrigerators are in the ratio of 3 : 4 respectively. Then find how much profit percentage he made on selling both the refrigerators?

A.8 4/5%

B.1 6/7%

C.4 4/5%

D.6 2/3%

E.None of these

33. A shop owner sold one-third of his item at 20% profit, one-sixth of the item at 20% loss and the rest

of the item is sold at the cost price. Find how much profit or loss percentage in the whole transaction?

A.7 2/5 %

B.6 2/3%

C.3 1/3%

D.4 3/4%

E.None of these

34. The profit percent earned by Kavin for a chair by selling it for Rs.5800 is equal to the loss percent incurred by Kamal by selling the same priced chair for Rs.2200. At what price should the chair be sold to make 40% profit?

A.Rs.5000

B.Rs.5200

C.Rs.5400

D.Rs.5600

E.None of these

35. In a Diwali sale, a seller plans to sell his toy at 10% discount and he earned Rs.250. If he sells the same toy at a discount of 8%, then he earns Rs.300. What is the marked price of the toy?

A.Rs.2000

B.Rs.2200

C.Rs.2100

D.Rs.2430

E.Rs.2500

36. Mani sold his radio after giving two successive discounts of 10% and d% and sold the radio for



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**Rs.2736. Find the value of d if the marked price of the radio is Rs.3200.**

- A.3%
- B.5%
- C.7%
- D.9%
- E.None of these

**37. A calculator is sold at a profit of 20% at the actual cost price. If the manufacturer makes a profit of 10%, then find the profit percent made by the seller. (approx..)**

- A.9%
- B.18%
- C.25%
- D.34%
- E.56%

**38. Ramesh resells his laptop with 20% discount, after he marked the price 8% more than its cost price. Find his loss percent.**

- A.13.6%
- B.12.5%
- C.10.8%
- D.9.7%
- E.None of these

**39. A bought two bicycle he sold the first bicycle at a profit of 40% and the second bicycle at a loss of 15%. If the selling price of both the bicycle is equal i.e. Rs 7140. Then find his overall profit or loss percentage.**

A.7.82%

B.6.66%

C.5.65%

D.4.77%

E.5.77%

**40. The shopkeeper gives  $33\frac{1}{3}\%$  of discount on marked price of Bottle while he gets the loss of 20%. If he sold at the marked price, then he got the profit of Rs.5, find the cost price of the bottle?**

- A.Rs.30
- B.Rs.20
- C.Rs.25
- D.Rs.35
- E.None of these

**41. The marked price of cycle and Watch is Rs.2800 and Rs.3000 respectively. If the shopkeeper allows the discount on marked price of the cycle is Rs.800 which is 80% of the discount of watch, then what is the difference between the selling price of watch and cycle?**

- A.Rs.500
- B.Rs.550
- C.Rs.600
- D.Rs.450
- E.None of these

**42. A shopkeeper marked an article at 50% above the cost price and sold it after two successive discounts of 10% and 20% respectively. If the shopkeeper gets the**





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profit of Rs.960, then find the marked price of the article?

- A.Rs.18000
- B.Rs.20000
- C.Rs.15000
- D.Rs.22000
- E.Rs.12000

43. If an article is sold after allowed two successive discounts of  $x\%$  and  $20\%$  and the profit earned after selling the article is  $x\%$ . If the ratio of the cost price to marked price of the article is  $36:55$  and the cost price of the article is Rs.7200, then find the value of  $x$ ?

- A.10%
- B.15%
- C.20%
- D.5%
- E.None of these

44. A shopkeeper gives a discount of  $10\%$  on marked price of every shirt and when he sells 12 shirts he gives one shirt free. What is the approximate real rate of discount offered by shopkeeper?

- A.15%
- B.17%
- C.19%
- D.21%
- E.23%

45. Ratio of the marked price of shoe and bag is  $2:1$ .

If there is a discount of  $x\%$  on marked price of the shoe and the discount of  $40\%$  on marked price of the bag and total discount got for both bag and shoe is  $30\%$ . Find the value of  $x$ ?

- A.20%
- B.25%
- C.30%
- D.35%
- E.None of these

46. An article was purchased for Rs. 44900. Its price was marked up by  $30\%$ . It was sold at a discount of  $10\%$ . Find the selling price of the article?

- A.52355
- B.52735
- C.52566
- D.52533
- E.52463

47. An article is marked up by  $80\%$  and sold after successive discounts of  $25\%$  and  $x\%$  thereby earned a profit of  $15\%$ . Find the value of  $x$ ?

- A.14.81%
- B.12.61%
- C.12.44%
- D.11.28%
- E.16.32%

48. A shopkeeper has three different mobiles Nokia, Samsung and Redmi and the total price of all the



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mobiles together is Rs.109000. The ratio of the cost price of Nokia to Samsung is 5:7 and the ratio of the cost price of Redmi to Nokia is 5:7. Find the cost price of Nokia?

- A.Rs.35000
- B.Rs.36000
- C.Rs.42000
- D.Rs.28000
- E.Rs.56000

49. A shopkeeper sold SD card at the profit of 8% and Pendrive at a loss of 10% thus making a profit of Rs.6. If he had sold SD card at 10% loss and Pendrive at 8% profit thus he suffers a loss of Rs.30, then find the cost price of SD card?

- A.Rs.500

B.Rs.2200

C.Rs.900

D.Rs.1800

E.None of these

50. Harshit purchased an air conditioner and a washing machine for Rs. 19,500 and Rs. 15,200 respectively. He sold the air conditioner at a profit of 18% and the washing machine at a loss of 31%. Find the overall profit or loss percentage made in the business.(Approximately).

A.4.85% profit

B.3.50% loss

C.5.75% profit

D.8.20% loss

E.None of these

### Profit and Loss – Answer and Explanation

1. **Answer: B**

MP of shirt = x

SP of shirt =  $x * 90/100 * 80/100 = 0.72x$

Discount =  $x - 0.72x = 0.28x$

Profit =  $0.28x/10 = 0.028x$

CP of shirt =  $0.72x - 0.028x = 0.692x$

Required percentage =  $0.028x/0.692x * 100$

= 4%

2. **Answer: B**

CP of bulb = 100a

MP of bulb =  $100a * 160/100 = 160a$

$160a * (100 - x)/100 = 100a * 136/100$

$x = 15$

3. **Answer: D**

Overall profit =  $25/100 * (3600 + 3000) = 1650$

Profit on Watch =  $3600 * 20/100 = 720$

Profit on Pendrive =  $1650 - 720 = 930$

$x = 930/3000 * 100$

= 31%

4. **Answer: A**

Discount of mobile and watch =  $15000 - 9000 = 6000$

$3x + x = 6000$

$x = 1500$

Discount of watch =  $1500 * 3 = 4500$



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### 5. Answer: D

Ratio of the investment of Ragu, Ragava and Rishi =  
1/12:1/15:1/9

$$= 15:12:20$$

Ratio of the time period of Ragu, Ragava and Rishi =  
1/8:1/6:1/4

$$= 3:4:6$$

Ratio of the profit share of Ragu, Ragava, Rishi =  
15\*3:12\*4:20\*6

$$= 45:48:120$$

$$= 15:16:40$$

Total profit of the business =  $71/40 * 4800$

$$= \text{Rs.}8520$$

$$x * 120/100 = 930$$

$$x = 775$$

### 6. Answer: A

Original SP = x

$$\text{New SP} = \frac{2}{3} * x$$

$$\frac{20}{100} = \frac{(\text{CP} - \frac{2}{3} * x)}{\text{CP}}$$

$$\frac{\text{CP}}{5} = \text{CP} - \frac{2}{3} * x$$

$$\text{CP} = 5\text{CP} - 10x/3$$

$$3\text{CP} = 15\text{CP} - 10x$$

$$10x = 12\text{CP}$$

$$x/\text{CP} = 6/5$$

$$\text{Profit percentage} = \frac{6k - 5k}{5k} * 100$$

$$= 20\%$$

### 7. Answer: B

CP of TV of Ram = x

CP of TV of Janu = y

$$x * 90/100 = y * 130/100$$

$$\Rightarrow x:y = 13:9$$

### 8. Answer: B

$$\text{MP} = 6x$$

$$\text{CP} = 5x$$

$$\text{SP} = \frac{11}{12} * 6x = 5.5x$$

$$\text{Required percentage} = \frac{(5.5x - 5x)}{5x} * 100$$

$$= 10\%$$

### 9. Answer: B

$$\text{MP of laptop} = \frac{100}{80} * 14400 = 18000$$

$$\text{MP of mobile} = 18000 * \frac{1}{3} = 6000$$

$$\text{SP of mobile} = 6000 * \frac{90}{100} = 5400$$

$$\text{CP of mobile} = 5400 * \frac{100}{120} = 4500$$

### 10. Answer: B

Let marked price = Rs.100

$$\text{SP} = 100 * \frac{88}{100} = \text{Rs.}88$$

$$\text{CP} = \frac{88}{110} * 100 = \text{Rs.}80$$

$$\text{New selling price} = 100 * \frac{90}{100} = \text{Rs.}90$$

$$\text{New profit} = 90 - 80 = \text{Rs.}10$$

$$\text{Profit \%} = \frac{10}{80} * 100 = 12.5\%$$

### 11. Answer: A

MP of Dress A = x

$$\text{CP of Dress B} = \frac{840}{1.2} = \text{Rs.}700$$

$$\text{CP of Dress A} = 1.05 * 700 = \text{Rs.}735$$

$$\Rightarrow 735 + 525 = (100 - 10)\% \text{ of } x$$

$$\Rightarrow x = \text{Rs.}1400$$

### 12. Answer: C



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Profit earned while selling 18 items = cost price of 3 items

$$18(SP - CP) = 3CP$$

$$18SP - 18CP = 3CP$$

$$18SP = 21CP$$

$$\text{Profit percentage} = 16.67\%$$

$$\text{Let cost price of a product} = 6x$$

$$\text{Marked price} = 125\% \text{ of } 6x = 7.5x$$

$$\text{Selling price} = 116.67\% \text{ of } 6x = 7x$$

$$\text{Discount offered} = \text{Rs.}40$$

$$7.5x - 7x = 40$$

$$0.5x = 40$$

$$x = 80$$

$$\text{Difference between CP and profit} = 6x - x = 5x = \text{Rs.}400$$

**13. Answer: E**

$$\text{Let SP of mobile} = 500x$$

$$\text{SP of laptop} = 500x * 140/100 = 700x$$

$$\text{SP of watch} = 500x * 60/100 = 300x$$

$$700x - 500x = 4000$$

$$x = 20$$

$$\text{SP of watch} = 300 * 20 = \text{Rs.}6000$$

$$\text{SP of mobile} = 500 * 20 = \text{Rs.}10000$$

$$\text{Average} = (6000 + 10000)/2 = 16000/2 = 8000$$

**14. Answer: E**

$$2400 - CP = (CP - 1700) * 75/100$$

$$9600 - 4CP = 3CP - 5100$$

$$7CP = 14700$$

$$CP = 2100$$

$$\text{Required SP} = 2100 * 120/100 = \text{Rs.}2520$$

**15. Answer: D**

$$\text{Let } x = \text{Marked price of the toy}$$

$$(100 - 24)\% \text{ of } x = 114$$

$$\Rightarrow x = 150$$

$$\text{Required Cost price} = 7/5 * 150 = \text{Rs.}210$$

**16. Answer: E**

$$\text{MP of cycle} = \text{Rs.}2800$$

$$\text{MP of Watch} = \text{Rs.}3000$$

$$\text{SP of Cycle} = 2800 - 800 = \text{Rs.}2000$$

$$\text{Discount of watch} = 800 * 100/80 = \text{Rs.}1000$$

$$\text{SP of watch} = 3000 - 1000 = \text{Rs.}2000$$

$$\text{Difference} = 2000 - 2000 = 0$$

**17. Answer: A**

$$\text{CP of doll} = 4x$$

$$\text{MP of doll} = 4x * 125/100 = 5x$$

$$\text{Initial SP of doll} = 5x - 360$$

$$\text{New sp of doll} = 5x - 360 + 200 = 5x - 160$$

$$(5x - 160) * 100/115 = 4x$$

$$500x - 16000 = 460x$$

$$x = 400$$

$$\text{MP of Doll} = 400 * 5 = 2000$$

**18. Answer: A**

$$\text{CP of table} = 4x$$

$$\text{MP of table} = 4x * 125/100 = 5x$$

$$5x * 80/100 * 90/100 = 4x - 1200$$

$$1200 = 0.4x$$

$$x = 3000$$





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$$\text{CP of table} = 4 * 3000 = 12000$$

$$\text{SP of table} = 12000 - 1200 = 10800$$

**19. Answer: B**

$$\text{CP} = \text{Rs.}12500$$

$$\text{MP} = 16000$$

$$\text{SP} = 16000 * 90/100 = 14400$$

$$\text{Profit} = (14400 - 12500)/12500 * 100 = 15.2\%$$

**20. Answer: E**

$$2400 - \text{CP} = (\text{CP} - 1700) * 75/100$$

$$9600 - 4\text{CP} = 3\text{CP} - 5100$$

$$7\text{CP} = 14700$$

$$\text{CP} = 2100$$

$$\text{Required SP} = 2100 * 120/100 = \text{Rs.}2520$$

**21. Answer: A**

$$\text{CP} = (100/135) * 4050 = \text{Rs.}3000$$

$$\text{Profit} = 4050 - 3000 = \text{Rs.}1050$$

**22. Answer: B**

$$\text{Marked price of the toy} = x$$

$$(100 - 10)/100 * x - 80 = (100 - 5)/100 * x - 100$$

$$\Rightarrow x = \text{Rs.}400$$

**23. Answer: A**

$$\text{SP of laptop} = \text{Rs.} 10200$$

$$\text{CP} = 100/120 * 10200 = \text{Rs.} 8500$$

$$\text{MP} * 80/100 = \text{Rs.} 10200$$

$$\text{MP} = \text{Rs.} 12750$$

$$\text{Difference} = 12750 - 8500 = \text{Rs.} 4250$$

**24. Answer: A**

$$\text{CP} = (100/135) * 4050 = \text{Rs.}3000$$

$$\text{Profit} = 4050 - 3000 = \text{Rs.}1050$$

**25. Answer: D**

$$\text{Let } x = \text{Marked price of the toy}$$

$$(100 - 24)\% \text{ of } x = 114$$

$$\Rightarrow x = 150$$

$$\text{Required Cost price} = 7/5 * 150 = \text{Rs.}210$$

**26. Answer: C**

$$\text{CP} = 300/50\% = \text{Rs.}600$$

$$\text{SP} = 600 + 300 = \text{Rs.}900$$

$$\text{MP} = 900/(100\% - 20\%) = \text{Rs.}1125$$

**27. Answer: A**

$$340 - \text{CP} = \text{CP} - 278$$

$$\text{CP} = 309$$

$$\text{SP of toy at the profit of } 20\% = 309 * 120/100 = \text{Rs.}370.8$$

**28. Answer: B**

$$\text{Salary} = 100x$$

$$\text{Transport} + \text{Shopping} + \text{House rent} = 12x + 20x + 40x = 72x$$

$$\text{Remaining} = 100x - 72x = 28x$$

$$28x * 50/100 = 2800$$

$$x = 200$$

$$\text{Salary} = 100 * 200 = 20000$$

**29. Answer: D**

$$\text{Let the MRP of article} = a$$

$$\text{According to question}$$

$$a * 7/8 * 11/10 = 385$$

$$77a/80 = 385$$



## Profit and Loss Questions for SBI PO Prelims

So,  $a = 385 \times 80/77 = 400$

When discount is 25%,  $MRP = 75\%$  of 400 = Rs. 300

**30. Answer: B**

There is no profit and no loss overall so

$3/8$  of  $X = 1/8 Y$

$X/Y = 1/3$

Cost price of  $Y = 3/4 \times 960 = 720$

Required value = 50% of 720 = Rs.360

**31. Answer: E**

Let the original marked price of article =  $100a$

Price at which shopkeeper bought the article = 75% of  $100a = 75a$

Price at which shopkeeper sells the article =  $75a \times 1.42 = 106.5a$

Marked price set by shopkeeper =  $106.5a/90 \times 100 = 118.333a$

Required % change =  $(118.333a - 100a)/100a \times 100 = 18.33\%$

**32. Answer: B**

Cost price of both refrigerator is in ratio = 3 : 4

Let the cost price of first refrigerator = Rs. 300

And the cost price of second refrigerator = Rs. 400

Then, according to the question,

Selling price of first refrigerator =  $300 - (25/100 \times 300)$   
 $= 300 - 75 \Rightarrow$  Rs. 225

Selling price of second refrigerator =  $400 + (22/100 \times 400)$   
 $= 400 + 88 \Rightarrow$  Rs. 488

Now, total cost price of both refrigerator =  $300 + 400 =$  Rs. 700

And selling price of both refrigerator =  $225 + 488 =$  Rs. 713

So, the required profit percentage is =  $(713 - 700)/700 \times 100 \Rightarrow 1\frac{6}{7}\%$

**33. Answer: C**

Let the cost price of the whole item is = Rs.  $x$

So, cost price of one-third item is = Rs.  $x/3$

And the cost price of one-sixth of item is = Rs.  $x/6$

Then, according to the question,

Total selling price of the item is,

$= (x/3 \times 120/100) + (x/6 \times 80/100) + x/2$

$= 6x/15 + 4x/30 + x/2$

$= (12x + 4x + 15x)/30$

$= 31x/30$

So, the required profit percentage is =  $(31x/30 - x)/x \times 100$

$= x/30x \times 100$

$= 3\frac{1}{3}\%$

**34. Answer: D**

Let the CP of the chair be  $x$ .

$(5800 - x)/x \times 100 = (x - 2200)/x \times 100$

$\Rightarrow x =$  Rs.4000

Required SP = 140% of  $x =$  Rs.5600

**35. Answer: E**

Let  $x$  be the marked price of the toy.

$0.90x - 250 = 0.92x - 300$



## Profit and Loss Questions for SBI PO Prelims

$$\Rightarrow x = \text{Rs.}2500$$

**36. Answer: B**

$$3200 * (100 - 10/100) * (100 - d)/100 = 2736$$

$$\Rightarrow d = 5\%$$

**37. Answer: A**

$$\text{Let CP} = \text{Rs.}100$$

$$\text{Manufacturer makes } 10\% \text{ profit on CP} = \text{Rs.}110$$

$$\text{Overall profit} = 20\% = \text{Rs.}120$$

$$\text{Profit \% made by the seller} = (120 - 110)/110 * 100 \approx 9\%$$

**38. Answer: A**

$$\text{Let CP} = \text{Rs.}100 \text{ and MP} = 108/100 * x = \text{Rs.}108$$

$$\text{SP} = (1 - 20/100) * 108 = \text{Rs.}86.4$$

$$\text{Loss \%} = (100 - 86.4)\% = 13.6\%$$

**39. Answer: E**

$$\text{Let the CP of 1}^{\text{st}} \text{ bicycle be } Y$$

$$\text{And the CP of 2}^{\text{nd}} \text{ bicycle be } Z$$

$$\text{CP of 1}^{\text{st}} \text{ bicycle,}$$

$$\text{SP} = \text{CP} * (100 + P)/100$$

$$\text{Or, } 7140 = Y * 140/100$$

$$Y = \text{Rs. } 5100$$

$$\text{CP of 2}^{\text{nd}} \text{ bicycle,}$$

$$\text{SP} = \text{CP} * (100 - L)/100$$

$$\text{Or, } 7140 = Z * 85/100$$

$$Z = \text{Rs. } 8400$$

$$\text{Thus, total CP of two bicycle} = \text{Rs. } (5100 + 8400) = \text{Rs. } 13500$$

$$\text{And, total SP of two bicycle} = \text{Rs. } (7140 + 7140) = \text{Rs. } 14280$$

$$\text{So, overall profit \%} = 780/13500 * 100 = 5.77\%$$

**40. Answer: C**

$$\text{MP} * 200/300 = \text{CP} * 80/100$$

$$\text{MP/CP} = 6/5$$

$$6k = 5k + 5$$

$$k = 5$$

$$\text{CP of bottle} = 5 * 5 = 25$$

**41. Answer: E**

$$\text{MP of cycle} = \text{Rs.}2800$$

$$\text{MP of Watch} = \text{Rs.}3000$$

$$\text{SP of Cycle} = 2800 - 800 = \text{Rs.}2000$$

$$\text{Discount of watch} = 800 * 100/80 = \text{Rs.}1000$$

$$\text{SP of watch} = 3000 - 1000 = \text{Rs.}2000$$

$$\text{Difference} = 2000 - 2000 = 0$$

**42. Answer: A**

$$\text{CP} * 150/100 * 90/100 * 80/100 = \text{CP} + 960$$

$$0.08 \text{ CP} = 960$$

$$\text{CP} = 12000$$

$$\text{MP} = 12000 * 150/100$$

$$= 18000$$

**43. Answer: A**

$$11000 * (100 - x)/100 * 80/100 = 7200 * (100 + x)/100$$

$$8800/7200 = (100 + x)/(100 - x)$$

$$720000 + 7200x = 880000 - 8800x$$

$$x = 10\%$$

**44. Answer: B**



## Profit and Loss Questions for SBI PO Prelims

MP of one shirt = x

SP of shirt =  $12x * 90/100 = 10.8x$

Real discount =  $((12 + 1)x - 10.8x)/(12 + 1)x * 100$   
= 17%

**45. Answer: B**

SP of bag =  $60/100 * a = 3a/5$

Total SP of bag and Shoe =  $3a * 70/100 = 21a/10$

SP of shoe =  $21a/10 - 3a/5$

=  $15a/10 = 3a/2$

Discount of shoe x =  $100 - (3a/2 * 100/2a)$

= 25%

**46. Answer: D**

Cost price = 44900

marked up by 30%

so the marked price = 130% of 44900

marked price = 58370

now gave 10% discount

therefore the selling price = 90% of marked price

= 90% of 58370

= 52533

**47. Answer: A**

Let cost price of the product = 100a

Marked price of the product = 180% of 100a = 180a

Profit = 15%

Profit = 15% of 100a = 15a

Therefore selling price = 100a + 15a = 115a

$115a = 180a ((100-25)/100) ((100-x)/100)$

$115 = 135((100-x)/100)$

$2300 = 2700 - 27x$

$27x = 2700 - 2300$

$27x = 400$

$x = 14.81\%$

Discount offered while selling x = 14.81%

**48. Answer: A**

$N + K + R = 109000$

Ratio of the CP of Nokia and Samsung = 5:7

Ratio of the CP of Redmi and Nokia = 5:7

Ratio of the CP of Nokia, Samsung and Redmi =  
35:49:25

CP of Nokia =  $35/109 * 109000$

= 35000

**49. Answer: E**

Let cost price of SD card = 100x

Cost price of Pendrive = 100y

From the given statements,

$8x - 10y = 6$

$8y - 10x = -30$

Solving this equations, we get  $x=7, y=5$

Cost price of SD card =  $100x = \text{Rs. } 700$

**50. Answer: B**

Total cost price of air conditioner and washing machine  
is,

=  $19,500 + 15,200 \Rightarrow \text{Rs. } 34,700$

Now, profit made on air conditioner is =  $19,500 \times 18/100$   
= Rs. 3510

So, selling price of air conditioner is =  $19,500 + 3510$





## Profit and Loss Questions for SBI PO Prelims

= Rs. 23,010

Now, loss on washing machine is =  $15,200 \times 31/100$

= Rs. 4712

So, selling price of washing machine is =  $15,200 - 4712$

= Rs. 10,488

Total selling price of both the items is =  $23,010 + 10,488$

= Rs. 33,498

Thus, the overall loss on both items is =  $34,700 - 33,498$

= Rs. 1202

And the overall loss percentage is =  $1202/34,700 \times 100 \approx$

3.50% loss

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