

BOOST UP PDFS | Quantitative Aptitude | Profit & Loss (Easy Level Part-1)

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1. Devi purchased a car for Rs. 25000 and sold it for Rs. 34800. What is the percent profit she made on the car?

- a. 40%
- b. 39.2%
- c. 38.4%
- d. 38%
- e. None of these

2. A loss of 10% is made by selling an article. Had it been sold for Rs 75 more, there would have been a profit of 5%. What would be the selling price of the article if it is sold at 15% profit?

- a. Rs 475
- b. Rs 520
- c. Rs 575
- d. Rs 425
- e. None of these

3. Ramya purchased a bike for Rs. 54000. He sold it at a loss of 8 percent. With that money, he again purchased another bike and sold it at a profit of 10 percent. What is his overall loss/profit?

- a. loss of Rs. 657
- b. profit of Rs. 567

c. loss of Rs. 648

d. profit of Rs. 648

e. None of these

4. When an article is sold for Rs. 3400, there is a loss of 2%. What is the cost price of the commodity?

- a. Rs 3500.50
- b. Rs 3200
- c. Rs 3400.56

d. Rs 3469.34

5. The profit earned after selling an article for Rs. 1516 is the same as loss incurred after selling the article for Rs. 1112. What is the cost price of the article?

- a. Rs. 1314
- b. Rs. 1343
- c. Rs. 1414
- d. Rs. 1434
- e. None of these

6. The sale price of an article including the sale tax is Rs. 616. The rate of sale tax is 10%. If the shopkeeper has made a profit of 12%, the cost price of the article is [The Pearson Guide book]

a. Rs 500

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b. Rs 515

c. Rs 550

d. Rs 600

7. Sika purchased an item for Rs. 9600 and sold it for a loss of 5 percent. From the money, she purchased another item and sold it for a gain of 5 percent. What is her overall gain/loss?

a. loss of Rs. 36

b. profit of Rs. 24

c. loss of Rs. 56

d. profit of Rs. 54

e. None of these

8. A man sold a wristwatch for Rs. 2400 at a loss of 25%. At what rate should he have sold the wristwatch, to earn a profit of 25%.

a. Rs. 3600

b. Rs. 4000

c. Rs. 3500

d. Rs. 3800

e. None of these

9. Kala purchased an item of Rs. 46000 and sold it at loss of 12 percent. With that amount, she purchased another item and sold it at a gain of 12 percent. What was her overall gain/loss?

a. loss of Rs. 662.40

b. profit of Rs. 662.40

c. loss of Rs. 642.80

d. profit of Rs. 642.80

e. None of these

10. Shan bought 30 liters of milk at the rate of Rs.8 per liter. He got it churned after spending Rs.10 and 5kg of cream and 30 liter of toned milk were obtained. If he sold the cream at Rs.30 per kg and toned milk at Rs.4 per liter, his profit in the transaction is?

a.20%

b.8%

c.30%

d.40%

11. Lokesh bought an article for Rs.2500.He spent Rs.320 on its shopping. He then sold it for Rs. 4089. What was the percent profit he gained in this transaction?

a.38%

b.45%

c.46%

d.35%

e. None of these

12. A shopkeeper allows 2% discount and gives 1 article free on purchase of 6 articles. He earns 40% profit during the transaction. By what percent above the cost price he marked his good?

a.50%

b.60%

c. 42 (6/7)%

d. 66 (2/3)%

e. None of these

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13. Jaga bought a refrigerator with 20% discount on the labeled price. Had he bought at it with 30% discount, he would have saved Rs. 500 more. At what price did he buy the refrigerator?

- a. Rs 5000
- b. Rs 10,000
- c. Rs 12,500
- d. Rs 15,000

14. A trader bought 8 kg of rice at Rs 10 per kg. While selling he uses false weights of 1600 gm instead of 2 kg. What profit did he make by selling 8 kg of rice bought?

- a. Rs 18
- b. Rs 30
- c. Rs 20
- d. Rs 26
- e. Rs 33

15. Two mobiles are sold at same price. If on one, a profit of 25% is made and on another, a loss of 10% is incurred, find the net profit/loss%?

- a. 10 62/99%
- b. 15 12/33%
- c. 6 14/23%
- d. 4 28/43%
- e. 15 1/5%

16. A discount of 25% on one article is same as a discount of 50% on another article. The costs of two article can be?

- a. Rs 30, Rs 20

b. Rs 90, Rs 40

c. Rs 80, Rs 40

d. Rs 50, Rs 40

17. The difference between the cost price and sale price of an article is Rs. 500 if the profit is 20%. The selling price is?

- a. Rs 4000
- b. Rs 1500
- c. Rs 3000
- d. Rs 3300

18. Due to reduction of 20% in price of pens a customer can purchase 5 more pens for Rs. 40. What is the original price of a pen?

- a. Rs 5
- b. Rs 3
- c. Rs 2
- d. Rs 6
- e. Rs 8

19. The selling price of an article by two different vendors is Rs.960. and profit earned is 25%. One vendor counts his profit on cost price while other one counts his profit on selling price. Find the difference of profit earned by both the vendors?

- a. Rs.33
- b. Rs.62
- c. Rs.44
- d. Rs.50
- e. Rs.48

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20. If the cost price of 15 articles is equal to the selling price of 12 articles, find gain percent?

- a. 20%
- b. 25%
- c. 30%
- d. 21%
- e. None of these

21. An article was purchased for Rs. 78350. Its price was marked up by 30%. It was sold at a discount of 20% on the marked up price. What was the profit percent on the cost price?

- a. 4%
- b. 7%
- c. 5%
- d. 3%
- e. 65%

22. A person sold an article at 16 $(\frac{2}{3})\%$ profit on Selling Price. Afterwards when the cost price reduced by 10% then he also reduced the selling price by 10%. His percentage of profit on cost price will be?

- a. 20%
- b. 21%
- c. 19%
- d. 25%
- e. 26 %

23. On selling an article for Rs. $(x-1800)$, Esha incurred a loss equal to half of the profit she would have gained on selling the same article for

Rs. $(x+2700)$. Find the value of x , if to gain a profit of 27.5% she needs to sell the article for Rs. 8925?

- a. 8500
- b. 7715
- c. 7300
- d. 6685
- e. 7000

24. A shopkeeper labeled the price of his articles so as to earn a profit of 30% on the cost price. He then sold the articles by offering a discount of 10% on the labeled price. What is the actual percent profit earned in the deal?

- a. 18%
- b. 15%
- c. 20%
- d. cannot be determined
- e. None of these

25. The marked price of a sofa is 11,500. The shopkeeper sold it by allowing 18% discount on the market price and earned 15% profit. What is the cost price of the sofa ?

- a. 8000
- b. 8100
- c. 8200
- d. 8400

26. After receiving 25% discount on an item, Anil needs to pay 2.5% CGST and 2.5% SGST on the discounted price. If Anil had got only 20% discount paid the same tax on discounted price then, he would

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have to pay Rs.84 extra. Find the original marked price of the item?

- a. Rs.1770
- b. Rs.1420
- c. Rs.1550
- d. Rs.1600
- e. Rs.1125

27. A man buys a single apple for Rs 25. If he were to buy a dozen apples, he would have to pay a total amount of Rs 250. What is approximate Percent discount he would get on buying a dozen apples?

- a.32%
- b.20%
- c.12%
- d.17%

e. None of these

28.A vendor loses the selling price of 4 apples on selling 36 apples. His loss percent is

- a. $12\frac{1}{2}\%$
- b. $11\frac{1}{2}\%$
- c. 10%
- d. 9%

29.The cost price of an item is Rs.120 and the profit percentage is $(x+30)\%$ of the cost price. If the cost price is increased by 25% and selling price remains same the profit percentage is $(x-20)\%$. Find the value of x.

- a. 120
- b. 105

c. 90

d. 85

e. 100

30. The ratio of the cost price to the marked price of a watch is 3:5 and ratio of the percentage profit to the percentage discount is 5:3.Find the profit percentage?

- a.13.34%
- b.16.65%
- c.16.43%
- d.17.5%

31.A shopkeeper sells his goods at its CP only. But he uses 650 g weight at the place of 1000 g weight for a kg. What is his net profit percentage?

- a.55%
- b. $20\frac{1}{3}\%$
- c. $49\frac{2}{3}\%$
- d. $53\frac{11}{13}\%$
- e. None of these

32. A person sold a Tube light at Rs.85.25 in such a way that his percentage profit is the same as the cost price of the Tube light. If he sells it at twice the percentage profit of his previous percentage of the profit then the new selling price will be

- a. Rs. 110.5
- b. Rs.115.05
- c. Rs.115.5
- d. Rs.110.05

33.A shopkeeper buys 12 books at Rs.200 each. He sells 8 books at 15% profit. He marks up the

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remaining books by 25% and then offers a discount of 12%. Find the overall profit percentage?

- a. 11.11%
- b. 17.27%
- c. 15.23%
- d. 10.15%
- e. 13.33%

34. On selling 15 balls at Rs 400 there is loss equal to Cost Price of 5 balls. The cost price of a ball is?

- a. 20
- b. 30
- c. 40
- d. 50
- e. 60

35. A shopkeeper sold an article for Rs.540 and earned a profit of 20%. Had the shopkeeper sold the same article after giving a cash back of Rs.'x' on the selling price he would have still earned a profit of (100/9)% , find the value of x?

- a. Rs.30
- b. Rs.40
- c. Rs.20
- d. Rs.60
- e. Rs.50

36. The difference in discounts between two successive discounts of 8% each and a single discount of 16% on Rs.2000 is

- a. 6.4
- b. 4.6

- c. 12.8
- d. 12.6

37. A shopkeeper sold his article at cost price but he uses false weight and gives 400gm instead of 600gm. find his loss or profit percent?

- a. 62%
- b. 40%
- c. 50%
- d. 30%
- e. 55%

38. Sum of CP's of two cows is Rs. 39, 000. Both the cows are sold at a profit of 20% and 40% respectively with their SP's being the same. What is the difference of CP's of both the cows?

- a. Rs. 3,000
- b. Rs. 2, 000
- c. Rs. 1, 500
- d. Rs. 2, 500
- e. None of these

39. The profit earned after selling an article for Rs. 1754 is the same as loss incurred after selling the article for Rs. 1492. What is the cost price of the article?

- a. Rs. 1623
- b. Rs. 1523
- c. Rs. 1689
- d. Rs. 1589
- e. None of these

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40. A man gets a profit of 28% after allowing discount of $11\frac{1}{9}\%$. Find how much percent the cost price should be increased to make this Mark Price?

- a. 40%
- b. 45%
- c. 44%
- d. 46%
- e. 52%

41. A sold an articles at 10% loss on the cost price. He had bought it at a discount of 20% on the labeled price. What would have been the percentage loss had he bought it at the labeled price?

- a. 34%
- b. 18%
- c. 28%
- d. 16%
- e. None of these

42. Naresh purchase a TV set for Rs. 11250 after get discount of 10% on the labelled price. He spent Rs. 150 on transport and Rs. 800 on installation. At what price the TV be sold so that the profit earned have been 15%?

- a. Rs. 12937.50
- b. Rs. 14030
- c. Rs. 13450
- d. Rs. 15350
- e. None of these

43. If 8kg of tea price costing Rs56/kg is blended with 32kg of tea of Rs69/kg and 25kg of Rs75/kg and the

mixture is sold at 20% profit. Find the selling price (in rupees) of mixture?

- a. 82.64
- b. 83.64
- c. 80
- d. 85
- e. 84.56

44. The profit earned after selling an article for Rs. 878 is the same as loss incurred after selling the article for Rs. 636. What is the cost price of the article?

- a. Rs. 797
- b. Rs. 787
- c. Rs. 767
- d. Rs. 757
- e. None of these

45. A seller calculated his intended selling price at 6% profit on the cost of a product. However, owing to some mistake while selling, the units and tens digits of the selling price got interchanged. This reduced the profit by Rs. 180 and profit percentage to 2.4%. What is the cost price of the product?

- a. Rs. 4500
- b. Rs. 5000
- c. Rs. 4750
- d. Rs. 6000
- e. None of these

46. A shopkeeper is giving a discount of 20% on the marked price but a customer bargains and the

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shopkeeper sells him at Rs. 240 less than he was supposed to sell. If the profit of the shopkeeper is decreased from 80% to 50% find the marked price of the item.

- a. 1300
- b. 1600
- c. 1100
- d. 1500
- e. 1800

47. Article X and Y were sold at 10% and 15% discounts resp. Cost price of both articles was same. Find the ratio marked price of the article A and B resp. if profit earned from article A and B was 8% and $\frac{40}{3}\%$ resp.

- a. 7:4
- b. 3:5
- c. 9:10
- d. 5:2
- e. 9:8

48. Prakash bought a bike at 20% discount on its original price. He sold it with 30% increase on the price he bought it. The new sale price is by what percent more than the original price ?

- a. 4%
- b. 5%
- c. 10%
- d. 22%
- e. None of these

49. Mani bought a printer and sold it to Raj for Rs. 2160 thereby making a profit of 20%. At what price Mani must sell the printer to earn a profit of 40%?

- a. Rs. 2780
- b. Rs. 2665
- c. Rs. 2000
- d. Rs. 2520
- e. Rs. 2200

50. A vendor sells calculators at the rate of Rs. 250 each and earns a commission of 20% on each. He also sells pens at the rate of Rs. 50 each and earns a commission of 10% on each. How much amount of commission will he earn in three days if he sells 10 calculators and 5 pens a day?

- a. Rs. 1575
- b. Rs. 1445
- c. Rs. 1550
- d. Rs. 1450
- e. None of these

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Answer Key with Solution

Solution (1-50)

1. B

$$\text{Profit} = 34800 - 25000 = 9800$$

$$\% \text{ profit} = (9800 * 100)/25000 = 39.2\%$$

2. C

Use shortcut for these type of questions:

CP of article = $75 \times 100 / [5 - (-10)]$ (+5 for 5% profit, -10 for 10% loss)

$$\text{So SP at 15\% profit} = 115/100 * \text{CP} = (115/100) * [75 \times 100/15] = \text{Rs } 575$$

3. D

$$\text{Loss} = (54000 * 8)/100 = \text{Rs. } 4320$$

$$\text{s.p of bike} = 54000 - 4320 = \text{Rs. } 49680$$

$$\text{Profit} = (49680 * 10)/100 = \text{Rs. } 4968$$

$$\text{s.p of bike} = 49680 + 4968 = \text{Rs. } 54648$$

$$\text{Profit} = 54648 - 54000 = \text{Rs. } 648$$

4. D

loss=2% so,

$$98\% \dots\dots\dots 3400$$

$$100\% \dots\dots\dots ?$$

$$? = (3400 \times 100)/98 = 3469.34$$

5. A

$$\text{Let c.p} = \text{Rs } x$$

$$\text{Profit} = \text{Rs } y$$

$$\therefore x + y = \text{s.p}$$

$$\Rightarrow 1516 = x + y \dots\dots(1)$$

$$\text{When S.P} = \text{Rs } 1112 \text{ then loss} = \text{Rs } y$$

$$\therefore 1112 = x - y \dots\dots(2)$$

Adding both the eqn.

$$\Rightarrow 2x = 2628$$

$$\Rightarrow x = \text{Rs. } 1314$$

6. A

$$110\% \text{ of S.P.} = 616$$

$$= \text{S.P.} = \text{Rs.} (616 \times 100/110) = \text{Rs. } 560.$$

$$\text{C.P.} = \text{Rs } (100/112 \times 560)$$

$$= \text{Rs } 500$$

7. E

$$\text{Loss} = (9600 * 5)/100 = 480$$

$$\text{s.p} = 9600 - 480 = 9120$$

$$\text{Again, Profit} = (9120 * 5)/100 = 456$$

$$\therefore \text{s.p} = 9120 + 456 = 9576$$

$$\text{Overall Loss} = 9600 - 9576 = \text{Rs. } 24$$

8. B

$$\text{Let c.p} = x$$

$$\text{s.p} = 0.75 * x = 2400$$

$$\Rightarrow x = 3200$$

$$\text{Again, Profit} = (3200 * 25)/100 = \text{Rs. } 800$$

$$\text{s.p} = 3200 + 800 = \text{Rs. } 4000$$

9. A

$$\text{c.p} = 46000$$

$$\text{s.p} = 12\% \text{ loss of c.p}$$

$$\Rightarrow 12 * 46000/100 = \text{RS. } 5520$$

$$\text{s.p} = 46000 - 5520 = \text{Rs. } 40480$$

$$\text{Again, Profit} = 40480 * 12/100 = \text{Rs. } 4857.6$$

$$\text{s.p} = 40480 + 4857.6 = \text{Rs. } 45337.6$$

$$\text{Loss} = 46000 - 45337.6 = \text{Rs. } 662.40$$

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10. B

$$CP = Rs.(30 \times 8 + 10) = Rs.250$$

$$SP = Rs. (30 \times 5 + 30 \times 4) = Rs.270$$

$$\text{Gain}\% = (20/250 \times 100)\% = 8\%$$

11. B

$$\text{Total cost price} = 2500 + 320 = Rs. 2820$$

$$\text{Profit} = 4089 - 2820 = Rs. 1269$$

$$\% \text{ profit} = (1269 \times 100)/2820 = 45 \%$$

12. D

$$\text{Discount} = 2\% = 1/50 \text{ MP:SP} = 50:49$$

$$\text{Profit} = 40\% = 2/5 \Rightarrow \text{CP:SP} = 5:7$$

$$\text{MP:SP:CP} = 50:49:35$$

This 35 is the CP of (6+1) hence the CP for 6 will be 30

$$(50-30)/30 \times 100 = 66 \frac{2}{3}\%$$

13. A

Let the labelled price be Rs.x Then,

$$(80\% \text{ of } x) - (70\% \text{ of } x) = 500$$

$$10\% \text{ of } x = 500$$

$$10\% \dots \dots \dots 500$$

$$100\% \dots \dots \dots ? = (500 \times 100/10) = 5000 = x$$

14. C

He uses 1600 grams weight instead of 2 kg, means he makes a profit here.

$$\text{That profit}\% = (2000-1600)/1600 \times 100 = 25\%$$

1 kg or 1000 gm cost him Rs 10. So 1600 gms costs him Rs 16.

Now on selling each 1600 gms he makes 25% profit. So profit = $25/100 \times 16 = Rs 4$

On selling each 1600 gms, he makes a profit of Rs 4, so on selling $5 \times 1600 = 8000$ gms or 8 kg, he makes a profit of $5 \times 4 = Rs 20$

15. D

profit 25% = 125, loss 10% = 90. Let SP of each mobile = LCM of (125 and 90) = 2250

So CP1 = $100/125 \times 2250 = Rs 1800$, and CP2 = $100/90 \times 2250 = Rs 2500$

$$\text{So total SP} = 2250 + 2250 = Rs 4500$$

$$\text{Total CP} = 1800 + 2500 = Rs 4300$$

$$\text{So gain}\% = (4500-4300)/4300 \times 100 = 200/43\% = 4 \frac{28}{43}\%$$

OR use formula:

$$\text{gain/loss}\% = [100(25 - 10) - 2(25)(10)] / [(100+25) + (100-90)] = (1500-500)/215 = + 200/43\%$$

16. C

Let the costs of the two articles be x and y. Then,

$$25\% \text{ of } x = 50\% \text{ of } y$$

$$\Rightarrow x/y = 50/25 = 2/1$$

So, x and y must be in the ratio of 2:1 → 80 and 40

17. C

$$120\% - 100\% = 20\%$$

$$20\% \dots \dots \dots 500$$

$$120\% \dots \dots \dots ?$$

$$? = 3000$$

18. C

There is 20% reduction in price. So to keep the total amount same, consumption should increase by $20/(100-20) \times 100 = 25\%$

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For 25% ($25/100 = 1/4$) increase in consumption,
customer can purchase 5 more pens

So original price of pens = $4 \times 5 = \text{Rs } 20$

So original price of 1 pen = $40/20 = \text{Rs } 2$

19. E

CP of item for first vendor = $960/(100+25)\% = \text{Rs.}768$

CP of item for second vendor = $960 \times (100-25)\% =$

Rs.720

Profit for first vendor = $960 - 768 = \text{Rs.}192$

Profit for second vendor = $960 - 720 = \text{Rs.}240$

Required Difference = $240 - 192 = \text{Rs.}48$

20. B

Let c.p of 1 article = x

s.p of 12 articles = c.p of 15 articles = $15x$

$\therefore$ s.p of 15 articles = $15 \times 15x/12 = 75x/4$

Profit = $75x/4 - 15x = 15x/4$

%profit = $(15x/4 \times 100)/15x = 100/4 = 25\%$

21. A

c.p = 78350

Marked up price = $78350 \times 30/100 = 23505$

s.p = $78350 + 23505 = 101855$

$\Rightarrow$ Discount = $101855 \times 20/100 = 20371$

s.p = $101855 - 20371 = 81484$

Profit = $81484 - 78350 = 3134$

%profit = $(3134 \times 100)/78350 = 4\%$

22. A

Profit on SP = $1/6$

SP:CP = 6:5 multiply by 10 for easy calculation = 60:50

$60-6 : 50-5 = 54:45$

$= (54-45)/45 \times 100 = 20\%$

23. C

CP of the article = $8925/1.275 = \text{Rs.}7000$

Loss incurred = $7000 - (x-1800) = \text{Rs.}(8800 - x)$

Profit gained = $(x+2700) - 7000 = \text{Rs.}(x-4300)$

$(8800-x) = (x-4300)/2$

$17600-2x = x-4300$

$3x = 21900$

$X = 7300$

24. E

Let c.p = 100

Labeled price = $(100 \times 130)/100 = 130$

Discount = $(130 \times 10)/100 = 13$

so, s.p = $130 - 13 = 117$

$\therefore$ Profit = $117 - 100 = 17$

%profit = $17 \times 100/100 = 17\%$

25. C

$11500 \times (82/100) \times (100/115) = 8200$

26. D

Total tax = $2.5+2.5 = 5\%$

Let the original marked price be x . $(x \times 4/5 \times 1.05) -$

$(x \times 3/4 \times 1.05) = 84$

$\Rightarrow x \times 1.05(4/5 - 3/4) = 84$

$\Rightarrow x = \text{Rs.}1600$

27. D

c.p of an apple = 25

c.p for 12 apple = $12 \times 25 = 300$

Discount = $300 - 250 = 50$

% Discount = $50 \times 100/300 = 16.66 = 17\%$

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28. C

Selling price of 36 apples = Rs.36

Selling price of 4 oranges = Rs.4

Loss = 4

Cost price = 36+4 = 40

Loss % = $(4/40) \times 100 = 10\%$

29. A

Profit on item = $(x+30)\%$ of 120

SP = $(x+30)\%$ of 120+120

New CP = $(100+25)\%$ of 120 = Rs.150

SP = 150 + $(x-20)\%$ of 150 $(x+30)\% \times 120 + 120 = 150$

+ $(x-20)\%$ of 150

$\Rightarrow 12x + 360 - 15x + 300 = 300$

$\Rightarrow x = 120$

30. B

Cp:mp = $3x:5x = 300 : 500$

Profit = $2x$

P:d = 5:3

$(5x \times 300)/100 + (3x \times 500)/100 = 100$

$30x = 100$

$X = (100/30) = 3.33\% \Rightarrow 5x = 16.65\%$

31. D

His profit % = $\frac{350}{650} \times 100 = 53 \frac{11}{13}\%$

32. C

Cp = x

Sp = $x + (x/2/100) = 85.25$

$x/2 + 100x - 8525 = 0$

$(x+155)(x-55) = 0$

X = 55

Now sp = $55 + (55 \times 110)/100 = 55 + 60.50 = 115.5$

33. E

CP of 12 books = $200 \times 12 = \text{Rs. } 2400$

SP of 8 books = $8 \times 1.15 \times 200 = \text{Rs. } 1840$

MP of each remaining book = $200 \times 1.25 = \text{Rs. } 250$

SP of each remaining book = $250 \times 0.88 = \text{Rs. } 220$

SP of each remaining 4 books = $220 \times 4 = \text{Rs. } 880$

Total SP of 12 books = $1840 + 880 = \text{Rs. } 2720$

Profit% = $(2720 - 2400) \times 100 / 2400 = 13.33\%$

34. C

loss = CP - SP

CP of 5 = CP of 15 - SP of 15

CP of 10 = SP of 15 = 400

CP of 1 = 40

35. B

CP of the article = $540 / 1.2 = \text{Rs. } 450$

Let cash back be x. $(100 + 100/9)\%$ of 450 = $540 - x$

$\Rightarrow x = \text{Rs. } 40$

36. C

Two successive discounts of 8% = $[8 + 8 - (8 \times 8 / 100)]\% = 15.36\%$

Diff = $16 - 15.36 = 0.64\%$

Required diff = $2000 \times (0.64 / 100) = \text{Rs. } 12.8$

37. C

$(600 - 400) / 400 \times 100 = 200 / 400 \times 100 = 50\%$

38. A

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First cow : Second cow

Let CP $\rightarrow 10 \times 7 : 10 \times 6$

SP $\rightarrow 12 \times 7 : 14 \times 6$

Ratio of their cost price = $7 : 6$

$\therefore 130 \rightarrow 39000$

$1 \rightarrow 300$

$10 \rightarrow 3000 \text{ Rs.}$

39. A

Let c.p = x and profit = y

s.p = x + y

$\Rightarrow 1754 = x + y \dots (1)$

Again, when loss is y

$\Rightarrow 1492 = x - y \dots (2)$

Adding both equations; $2x = 3246$

$\Rightarrow x = 1623$

40. C

Gain - 28% CP SP

. 100 128

Discount $11\frac{1}{9}\% = \frac{1}{9}$

MP SP

9 8

Make SP same

CP SP MP

100 128 144

MP - CP = 44%

41. C

Let labelled price = 100

Discount = $100 \times \frac{20}{100} = 20$

c.p = $100 - 20 = 80$

Loss = $80 \times \frac{10}{100} = 8$

s.p = $80 - 8 = 72$

Loss = $100 - 72 = 28$

% Loss = $28 \times \frac{100}{100} = 28\%$

42. B

c.p = 11250

Extra money spent = $150 + 800 = 950$

Total c.p = $11250 + 950 = 12200$

Profit (15%) = $12200 \times \frac{15}{100} = 1830$

s.p = $12200 + 1830 = 14030$

43. B

$(8 \times 56 + 32 \times 69 + 25 \times 75) / 65 = 69.70$

$(69.70 / 100) \times 120 = 83.64$

44. D

Let c.p = x and profit = y

s.p = x + y

$\Rightarrow 878 = x + y \dots (1)$

$\Rightarrow 636 = x - y \dots (2)$

$\Rightarrow 2x = 1514$

$\Rightarrow x = 757$

45. B

Profit % reduced = $6 - 2.4 = 3.6\%$

$\therefore \text{Required CP} = \frac{180}{3.6} \times 100$

= 5000 Rs.

46. E

Let the MP be x.

And CP be y. $1.8y = 0.8x \dots (1)$

And $1.5y = 0.8x - 240 \dots (2)$

Now, $1.8y = 1.5y + 240$

$\Rightarrow y = \text{Rs. } 800$

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So, $x = (1.8 \times 800) / 0.8 = 1800$

47. C

Let the CP of both the article be Rs.x.

SP of X = 108% of x = Rs.108x

SP of Y = 340/3% of x = Rs.17x/15

MP of X = $1.08x / 0.9 = \text{Rs.}1.2x$

MP of Y = $17x / 15 / 0.85 = \text{Rs.}4x/3$

Required ratio = $1.2x : 4x/3 = 9:10$

48. A

Let original price = Rs.100

20% discount = Rs.20

CP = 80

SP = $(130/100) \times 80 = 104$

Percentage = $(104 - 100) \% = 4\%$

49. D

CP be x. $x \times 1.2 = 2160$

$\Rightarrow x = 1800$

Required Amount = $1800 \times 1.4 = \text{Rs.}2520$

50. A

Profit on calculator = $(250 \times 20) / 100 = \text{Rs. } 50$

For 10 calculators = $50 \times 10 = \text{Rs. } 500$

Profit on pen = $(50 \times 10) / 100 = 5$

For 5 pens = $5 \times 5 = \text{Rs. } 25$

Total profit = $500 + 25 = \text{Rs. } 525$

Total profit for 3 days = $525 \times 3 = \text{Rs. } 1575$