

# Questions & Solution

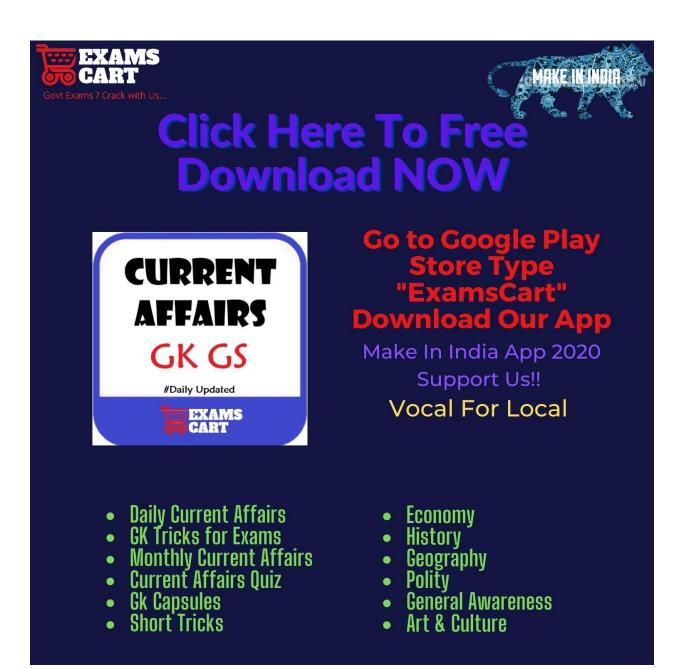
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# **Profit & Loss Questions With Solution**

- 1. A Shopkeeper buys two bicycles for Rs. 750. He sells first bicycle at a profit of 22% and the second bicycle at a loss of 8%. What is the SP of first bicycle if in the whole transaction there is no profit no loss?
  - A) Rs506
  - B) Rs244
  - C) Rs185
  - D) Rs230
  - E) None

#### **View Answer**

Option B

**Solution:** 

CP of 1st bicycle =x

Then CP of 2nd bicycle is 750-x.

Their SP be 122/100\*x and 92/100\*(750-x)

Given that there is no profit no loss.

122/100\*x + 92/100\*(750-x) = 750

122x +750\*92 -92x=750\*100

122x - 92x = 750\*100 - 750\*92

30x = 750 \* (100-92)

X=200.

SP of 1st bicycle =122/100 \*200=Rs244.

- 2. The cost price of item B is Rs. 200/- more than the cost price of item A. Item A was sold at a profit of 20% and item B was sold at a loss of 30%. If the respective ratio of selling prices of items A and B is 6:7, what is the cost price of item B?
- A) Rs520
- B) Rs430
- C) Rs400
- D) Rs360
- E) None

#### **View Answer**

**Option C** 

**Solution:** 

Let the CP of item A be x CP of item B is x+200.

(120/100\*x)/(x+200)\*70/100 = 6/7

120x/(x+200)\*70=6/7

20x/10(x+200)=1

X=Rs200.

CP of item B is 200+200 = Rs400.

3. Two Mangoes, three grapes and four apples cost Rs. 15. Three Mangoes, two grapes and one apple cost Rs. 10. I bought 3 Mangoes, 3 grapes and 3 apples. How much did I pay?

- A) Rs15
- B) Rs18
- C) Rs20
- D) Rs25
- E) None

#### **Option A**

**Solution:** 

```
Mango=X;. Grape = Y; Apple =Z;
2X+3Y+4Z=15—1
3X+2Y+Z=10—2
Adding (1) and (2) 5X+5Y+5Z=25
Clearly, X+Y+Z=5.
```

So cost of 3 Mangoes, 3 grapes and 3 apples will be 3X+3Y+3Z i.e, 15

- 4. A watch dealer incurs an expense of Rs. 150 for producing every watch. He also incurs an additional expenditure of Rs. 30,000, which is independent of the number of watches produced. If he is able to sell a watch during the season, he sells it for Rs. 250. If he fails to do so, he has to sell each watch for Rs. 100. If he produces 1500 watches, what is the number of watches that he must sell during the season in order to breakeven, given that he is able to sell all the watches produced?
- A) 580
- B) 620
- C) 650
- D) 700
- E) None

#### **View Answer**

#### **Option D**

#### **Solution:**

```
Total cost to produced 1500 watches = (1500 \times 150 + 30000) = Rs. 2,55,000 Let he sells x watches during the season, therefore number of watches sold after the season = (1500 - x) 250 × x + (1500 - x) × 100 = 150x + 150000 Now, break-even is achieved if production cost is equal to the selling price. 150x + 150000 = 2,55,000 x = 700
```

- 5. A dealer offers a cash discount of 20% and still makes a profit of 20%, when he further allows 16 articles to a dozen to a particularly sticky bargainer. How much per cent above the cost price were his wares listed?
- A) 100%
- B) 80%
- C) 75%
- D) 85%
- E) None

#### **View Answer**

Option A

#### **Solution:**

MP=120/(80/100)=150

Now he is selling 16 goods to a dozen(ie 12),

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```
so his loss = \{(16-12)/16\} x100 = 25%. Then the actual MP 150/(75/100)=200 Hence, he has marked the MP 100% above the CP.
```

- 6. Profit earned by an organisation is distributed among officers and clerks in the ratio of 5 : 3. If the number of officers is 55 and the number of clerks is 70 and the amount received by each officer is Rs12,000, what was the total amount of profit earned?
- A) Rs11 Lakh
- B) Rs12.25Lakh
- C) Rs10.56Lakh
- D) Rs16Lakh
- E) None

#### **View Answer**

#### **Option C**

#### **Solution:**

The total amount distributed among 55 officers =  $Rs.55 \times 12000 = Rs.6,60,000$ .

Their ratio 5:3

Then 5 660000

3 ? 396000

Total profit = 6,60,000 + 396000

=Rs10,56,000.

- 7. The percentage profit earned by selling an article for Rs. 2120 is equal to the percentage loss incurred by selling the same article for Rs. 1520. At what price should the article be sold to make 25% profit?
- A) Rs2275
- B) Rs2100
- C) Rs2650
- D) Rs2400
- E) None

#### View Answer

#### Option A

# **Solution:**

The CP be

2120+1520=3640

3640/2=1820.

SP=1820\*125/100=1820\*5/4

=Rs2275

- 8. A purchased a machine at Rs 13,000, then got it repaired at Rs 3500, they gave its transportation charges Rs500. Then he sold it at 50% profit. At what price he actually sold it?
- A) Rs18500
- B) Rs25500
- C) Rs22200
- D) Rs19600
- E) None

View Answer

Option B

**Solution:** 

```
The CP is 13000+3500+500=17000
Then SP
100 17000
150 ? ==> 25500
```

- 9. In a certain store, the profit is 270% of the cost. If the cost increases by 30% but the selling price remains constant, approximately what % ge of the selling price is the profit.
- A) 68%
- B) 72%
- C) 50%
- D) 65%
- E) None

#### Option D

# **Solution:**

Let C.P.= Rs. 100.

Then, Profit = Rs. 270,

S.P. = Rs. 370.

New C.P. = 130% of Rs. 100 = Rs. 130

New S.P. = Rs. 370.

Profit = Rs. (370 - 130) = Rs. 240

Required percentage = (240/370) \* 100

= 64.86 = 65%(approx)

- 10. A person X sold an Item to Y at 40% loss, then Y sold it to third person Z at 40% profit and finally Z sold it back to X at 40% profit. In this whole process what is the percentage loss or profit of X?
- A) 70%
- B) 62.5%
- C) 57.6%
- D) 55%
- E) None

#### **View Answer**

#### **Option C**

#### **Solution:**

Let the CP = Rs.100. for X.

Y's CP = Rs.60.

Z's CP = Rs.84.

Finally, X's CP = Rs.117.6.

- $\therefore$  X's loss = 117.6 60 = Rs.57.6
- $\therefore$  X's loss percent = 57.6%
- 1. If Joel sells an article at 4/5th of its selling price and secures a profit of 20%, what will be the profit or loss percentage if he sells it at the actual selling price?
  - A) 45%
  - B) 60%
  - C) 50%

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- D) 56%
- E) None

View Answer
Option C
Solution:

Let CP is Rs100 Profit 20% Means ==> 120. 120=4/5SP==>SP =150. Then profit %ge is 50%

- 2. A product costs a company Rs 60 to manufacture, and it sold the product to a dealer for Rs 70, who in turn sold it to a shopkeeper for Rs 85, who sold to a customer for Rs 102. What is the percentage of profit for the company and who made the highest profit on selling the product?
- A) 20 1/3%, Company
- B) 16 2/3%, Dealer
- C) 20 1/3% ,Dealer
- D) 16 2/3%, Shopkeeper
- E) None

View Answer

**Option B** 

**Solution:** 

Company Profit % ge is (70-60)10/60\*100=100/6=16 2/3.

Then Dealers Profit % ge is (85-70)15/70\*100=150/7=21 3/7.

Then Shopkeeper Profit % ge is (102-85)17/85\*100=20

Among the three Dealer get the highest profit %ge.

- 3. Navya buys a certain number of toys at 12 per Rs 9 and the same number at 18 per Rs 9. If she sells them at 18 per Rs15 does she gain or lose and by what percentage?
- A) 33 1/3 % loss
- B) 12% gain
- C) 33 1/3 % gain
- D) 12% loss
- E) None

View Answer Option C

**Solution:** 

She bought 12 toys at Rs 9.

And 18 toys at Rs 9

Then 12toys = 189

12 ?==6

Total 24toys = (9+6)15.

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She sells 18 toys at Rs 15. Now 18 15 (12+12) 24 ? ==>20 Profit %ge is 15/20\*100=300/4=33 1/3%.

- 4. A shopkeeper sells Marker at the rate of Rs.35 each and earns a commission of 10%. He also sells Gel pen at the rate of Rs. 65 each and earns a commission of 20%. How much amount (in rupees) of commission will he earn in 2 weeks, if he sells 12 markers and 8 Gel pens a day?
- A) 2100
- B) 1850
- C) 2044
- D) 2680
- E) None

#### **View Answer**

**Option C** 

**Solution:** 

Commission for marker=(35\*12)\*10/100=42

Commission for Gel pen =(65\*8)\*20/100=104

Total Commission earned in 2 weeks is, (104+42)\*14=2044.

- 5. A discount of 20% is given on the marked price of an article. The shopkeeper charges sales tax of 10% on the discounted price. If the selling price be Rs 1848, what is the marked price (in rupees) of the article?
- A) 2500
- B) 3200
- C) 3600
- D) 2100
- E) None

View Answer Option D

**Solution:** 

Solution:

Let the MP be x

Then  $x \approx 80/100(20\% \text{ discount}) \approx 110/100(10\% \text{ sales}) = 1848$ 

X = 2100

- 6. A calculate his profit %ge on the selling price whereas B calculate his on the cost price. They find that the difference of their profit is Rs 150. If the selling price of both of them are same and both of them get 20% profit, find their selling price (in rupees).
- A) 2500
- B) 3000
- C) 3200
- D) 4000

E) None

View Answer
Option E
Solution:
Let SP is x
A's profit =x\*20/120=x/6
B's profit =x\*20/100=x/5
Diff is x/6-x/5=150
x/30=150==>x=4500

- 7. A person sells two fans for Rs. 6800. The cost price of the first fan is equal to the selling price of the second fan. If the first is sold at 30% loss and the second at 100% gain, what is total profit or loss (in rupees)?
- A) 750
- B) 800
- C) 670
- D) 580
- E) None

# View Answer Option B

**Solution:** 

Let the cp of 1st fan = sp of 2nd fan = Rs 100  $\therefore$  sp of 1st fan = 70(loss 30%) Cp of 2nd fan = 50 (profit 100%) Total cp = 100 + 50 = 150 and total sp = 70 + 100 = 170  $\therefore$  When SP = 6800, then cp = 150/170 x 6800 = 6000  $\therefore$  Profit = 6800 - 6000 = 800

- 8. A dealer allowed a discount of 25% on marked price of Rs.20,000 on an article and incurred a loss of 20%. What discount should he allow on the marked price so that he gains Rs.450 on the article? A) 6.5%
- B) 5%
- C) 4.25%
- D) 4%
- E) None

View Answer
Option D
Solution:

25% discount==>20,000\*75/100=15000

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```
Then loss 20% means x*80/100=15000=3750*5=18750
He gain 450 means SP=18750+450=19200
Now 20000-19200=800
%ge =800/20000*100=4%
```

- 9. A dealer marked the price of an item 20% above cost price. He allowed two successive discounts of 20% and 25% to a customer. As a result he incurred a loss of Rs.1400. At what price (in rupees) did he sell the item to the customer?
- A) 3600
- B) 4200
- C) 3850
- D) 4125
- E) None

#### View Answer

#### **Option A**

#### **Solution:**

CP = 100

MP = 120

120\*80/100 = 96; 96\*75/100 = 72

Loss = 100 - 72 = 28%

CP = 100/28\*1400 = 5000

SP = 5000\*72/100 = 3600

- 10. A reputed company sells a wrist watch to a wholesaler making a profit of 10%. The wholesaler, in turn, sells it to the retailer making a profit of 10%. A customer purchases it by
- wholesaler, in turn, sells it to the retailer making a profit of 10%. A customer purchases it by paying Rs. 990. Thus the profit of retailer is 2(3/11)% What is the cost (in rupees) incurred by the the company to produce it?
- A) 600
- B) 700
- C) 800
- D) 900
- E) None

#### **View Answer**

**Option C** 

#### **Solution:**

```
x*110/100*110/100*(100 + 25/11)/100 = 990
x = 800
```

- 1. A dealer buys a product at Rs. 1920, he sells at a discount of 20% still he gets the profit of 20%. What is the selling price of that product?
  - A) Rs.1159
  - B) Rs.1550
  - C)Rs.2304

```
D) Rs.1785
E) Rs.1245
```

#### View Answer **Option C**

**Solution:** 

```
CP —— SP ——-MP
100—-(20% profit)—-120——-(20% discount) ——-150
=> SP = 1.2CP = 2304
```

2. The ratio of cost price and marked price of an article is 2:3 and ratio of percentage profit and percentage discount is 3:2. What is the discount

percentage?

- A) 18.58%
- B) 20.25%
- C) 16.66%
- D) 22.13%
- E) 14.51%

#### **View Answer**

Option C

**Solution:** 

```
CP : MP = 2x : 3x
=> profit = x
profit %: discount \% = 3:2
Let CP = 200, SP = 300
But (3x/100)*200 + (2x/100)*300 = 100
=> x = 8.33\%
Discount 2x = 16.66\%
```

- 3. A firm of readymade garments makes both men's and women's shirts. Its average profit is 6% of the sales. Its profit in men's shirts average 8% of the sales and women's shirts comprise 60% of the output. Find the average profit per sales rupee in women's shirts.
- A) 1.2560
- B) 0.0125
- C) 0.0566
- D) 0.0466
- E) 1.1562

#### **View Answer**

**Option D** 

#### **Solution:**

According to questions,

women's shirts comprise 60% of the output.

Therefore, Men's shirts comprise 40% of the output.

Average profit from men's shirts = 8% of 40 = 3.2 out of 40

Overall average profit = 6 out of 100

Average profit from women's shirts = 2.8 out of 60

= 0.0466 out of each shirt.

A shopkeeper marks his goods 20% above his cost price and gives 15% discount on the marked price. Find his gain%.

- A) 2%
- B) 8%
- C) 11%
- D) 6%
- E) 7%

**Option** 

#### **Solution:**

CP = 100, MP = 120

D = (15/100)\*120 = 18%

SP = 102

P% = (P/CP)\*100 = (2/100)\*100 = 2%

- A, B and C invest in the ratio of 3:4:5. The percentage of return on their investments are in the ratio of 6:5:4. Find the total earnings, if B earns Rs. 250 more than A.
- A) 7500
- B) 6999
- C) 4575
- D) 7250
- E) 2500

#### View Answer

Option D

**Solution:** 

Invetsment 3x - 4x - 5xRate of return 6y% - 5y% - 4y%

(18xy/100)—-(20xy/100)——(20xy/100) Return

Total = (18+20+20) = 58xy/100

B's earnings – A's earnings = 2xy/100 = 250

Total earnings = 58xy/100 = 7250-Xams (Crack Willias

- Jagran group launched a new magazine in January 2004. The group printed 10000 copies initially for Rs. 50000. It distributed 20% of its stock freely as specimen copy and 25% of the rest magazines are sold at 25% discount and rest at 16.66% discount whose printing price was Rs. 12 per copy. What is the overall gain or loss in the first month's issue of magazine, if the magazine could not realize the income from advertisements or other resources?
- A) 56%
- B) 62%
- C) 74%
- D) 50%
- E) 68%

#### View Answer

**Option A** 

#### **Solution:**

Total cost = Rs.50,000

Total sale price = 2000 \* 9 + 6000 \* 10 = 78,000

Profit% = (28000/50000)\*100 = 56%

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- 7. A dishonest trader marks up his goods by 80% and gives discount of 25%. Besides he gets 20% more amount per kg from wholeseller and sells 10% less per kg to customer. What is the overall profit percentage?
- A) 63%
- B) 72%
- C) 88%
- D) 55%
- E) 80%

#### **View Answer**

**Option E** 

#### **Solution:**

CP = 100/120 = 10/12

SP = 135/90 = 18/12

Profit  $\% = \{[(18/12) - (10/12)]/(10/12)\} *100 = 80\%$ 

- 8. By selling 12 marbles for a rupee, a shopkeeper loses 20%. In order to gain 20% in the transaction, he should sell the marbles at the rate of how many marbles for a rupee?
- A) 14
- B) 8
- C)11
- D) 9
- E) 22

#### View Answer

#### Option B

#### **Solution:**

SP of 12 marbles = Rs.1, loss = 20%

CP of 12 marbles = Rs. (1/0.8) = Rs. 1.25

SP of 12 marbles at a gain of 20%

CP \* 1.2 = 1.25 \*1.2

= Rs. 1.5

It means in order to gain 20%, he should sell 12 marbles for Rs.1.5

For Rs. 1, he should sell 12/1.5 = 8 marbles

- 9. A shopkeeper bought a DVD marked at Rs. 200 at successive discounts of 10% and 15% respectively. He spent Rs. 7 on transport and sold the table for Rs.208 .What will be his profit percentage?
- A) 58%
- B) 44%
- C) 30%
- D) 50%
- E) 62%

#### **View Answer**

**Option C** 

#### **Solution:**

Single equivalent discount for 10% and 15% = (15 + 10 - (15\*10/100))%

= 23.5%

 $CP ext{ of } DVD = 200*(100-23.5)\% = Rs.153$ 

Expense on transport = Rs. 7

```
Actual CP = 153 + 7 = Rs. 160
Profit % = [(208 - 160)/160]*100 = 30\%
```

- 10. The cost of setting up a magazine is Rs.2800. The cost of paper and ink is Rs.80/ 100 copies and printing cost is Rs. 160 / 100 copies. In the last month 2000 copies were printed but only 1500 copies could be sold at Rs. 5 each . Total 25% profit on the sale price was realized. There is one more resource of income from the magazine which is advertising. What sum of money was obtained from the advertising in magazine?
- A) Rs.1654
- B) Rs.1522
- C) Rs.1750
- D) Rs.1975
- E) Rs.1800

**Option D** 

**Solution:** 

Setup cost = Rs.2800

Paper, ink = Rs. 1600

Printing cost = Rs. 3200

Total cost = Rs. 7600

Total sale price = 1500\*5 = 7500

Let the amount obtained from advertising is x,

then

$$(7500+x) - 7600 = 25\%$$
 of 7500

$$=> x = 1975$$

- 1. A dealer offers a discount of 20% and still makes a profit of 20% and he further allows 4 articles free on the sale of 12 articles. Find the ratio of cost price to market price.
  - A) 1:2
  - B) 4:5
  - C) 3:7
  - D) 2:5
  - E) 5:7

#### **View Answer**

Option A

**Solution:** 

Formula : MP(1 - d%) = CP(1+g%)

MP(80/100) = CP(120/100)

CP/MP = 80/120——(1)

Now,

16 articles given in the cost of 12 articles

MP of one article = total /12—(2)

CP of one article = total /16—(3)

For one article:

CP/MP = (80/16)/(120/12) = 1/2

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- 2. A and B are dealers of a bike company. The price of a bike is Rs.28,000. A gives a discount of 10% on whole, while B gives a discount of 12% on the first Rs.20,000 and 8% on the rest Rs.8000. What is the difference between their selling price?
- A) Rs.110
- B) Rs.180
- C) Rs.240
- D) Rs.200
- E) Rs.90

View Answer Option C Solution:

A's discount = 2800 B's discount = 2400+640 = 3040 Required difference = 3040-2800 = Rs.240

- 3. Sonata sells a wrist watch to a wholeseller making a profit of 10%. The wholesaler sells it to the retailer making a profit of 10%. A customer purchases it by paying Rs.990. Thus the profit of retailer is 2(3/11)% what is the cost incurred by the Sonata to produce it?
- A) Rs.755
- B) Rs.950
- C)Rs.850
- D) Rs.550
- E) Rs.800

View Answer Option E Solution: [((x\*1.1)\*1.1)\*(1125/1100)] = 990=> x = 800

- 4. Fanta and Coke, there are two companies, selling the packs of cold-drinks. For the same selling price Fanta gives two successive discounts of 10% and 25%. While Coke sells it by giving two successive discounts of 15% and 20%. What is the ratio of their marked price?
- A) 110:111
- B) 120:125
- C) 131:133
- D) 136:135
- E) 140:141

View Answer

# Option D

#### **Solution:**

Fanta \*0.9\*0.75 = Coke \*0.85\*0.80

Fanta/Coke = 136/135

- 5. Profit on selling 10 candles equals selling price of 3 bulbs. While loss on selling 10 bulbs equals selling price of 4 candles. Also profit percentage equals to the loss percentage and cost of a candle is half of the cost of a bulb. What is the ratio of selling price of candle to the selling price of a bulb?
- A) 2:1
- B) 3:2
- C)7:9
- D) 5:3
- E) 3:1

# View Answer Option B

#### Solution:

and 
$$y = 2x$$

Profit = 
$$10(a - x) = 3b$$

Loss 
$$= 10(y - b) = 4a$$

Profit% = 
$$(3b/10x)*100$$
——(1)

and Loss% = 
$$(4a/10y)*100$$
—(2)

Again,

equating 
$$(1) & (2)$$
, we get

$$a/b = 3/2$$

- 6. A person wants to reduce the trade tax so he calculates his profit on the sale price instead of on the cost price. In this way by selling a article for Rs. 280 he calculates his profit as 14(2/7)%. What is his actual profit percentage?
- A) 20.12%
- B) 16.66%
- C) 15.66%
- D) 22.21%
- E) 31.11%

View Answer

Option B Solution:

Actual profit% = 
$$(40/240)*100 = 16.66\%$$

- 7. A person sold an electronic watch at Rs. 96 in such a way that his percentage profit is same as the cost price of the watch. If he sells it at twice the percentage profit of its previous percentage then find the new selling price.
- A) Rs.132
- B) Rs.120
- C) Rs.123
- D) Rs.100
- E) Rs.110

Option A

#### **Solution:**

SP = x + (x\*x)/100 = 96%

=> x = 60

New, SP = 60 + (60\*120)/100 = Rs. 132

- 8. A bookseller procures 40 books for Rs. 3200 and sells them at a profit equal to the selling price of 8 books. What is the selling price of one dozen books, if the price of each book is same?
- A) Rs.1300
- B) Rs.1100
- C) Rs.800
- D) Rs.1200
- E) Rs.1000

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#### **View Answer**

**Option D** 

#### **Solution:**

CP = Rs. 3200/40 = Rs.80

Now SP of 40 books = CP of 40 books + SP of 8 books

=> SP of 32 books = 3200

SP of 1 book = Rs.100

Therefore,

Required SP of 1 dozen books = Rs. 1200

- 9. A firm of readymade garments makes both men's and women's shirts. Its average profit is 6% of the sales. Its profit in men's shirts average 8% of the sales and women's shirts comprise 60% of the output. What is the average profit per sales rupee in women's shirts.
- A) 0.1243
- B) 0.5416
- C) 0.0466
- D) 0.5247

E) 0.2451

# View Answer

**Option C** 

#### **Solution:**

Women's shirts comprise = 60%

Men's shirts comprise =40%

Average profit from men's shirts = 8% of 40 = 3.2 out of 40

Overall average profit = 6 out of 100

Average profit from women's shirts = 2.8 out of 60 i.e. 0.0466 out of each shirt.

- 10. Of the two varieties of rice available, variety A is bought at Rs.32 per kg and variety B at Rs.80 per kg. Two varieties of rice are mixed together in the respective ratio of 8:5 and the mixture is sold at Rs.72 per kg. What per cent of profit approximately the seller receives?
- A) 50%
- B) 40%
- C) 30%
- D) 55%
- E) 43%

#### View Answer

**Option E** 

#### **Solution:**

Let 8 kg of first variety of rice and 5 kg of second variety is mixed.

CP of 13 kg of rice = (8\*32 + 5\*32) = Rs. 656

SP of 13 kg of rice = 72\*13 = Rs.936

Profit = 936 - 656 = Rs.280

Profit% = (280/656)\*100 = 43%

Raman calculates his profit % on the selling price whereas Rajeev calculates his on the cost price. They find that the difference of their profits Rs.150. If the selling price of both the m are the same and both of them get 50% profit. Find their selling price.

- A) Rs. 620
- B) Rs. 900
- C) Rs.870
- D) Rs.750
- E) Rs.550

View Answer

Option B

#### **Solution:**

selling price = [Diff. \* 100 \* (100 + 50)]/(50)^2 = [150 \* 100 \* 150]/ 2500 = 900

- A trader has 600kgs of rice, a part of which he sells at 15% profit and the remaining quantity at 20% loss. On the whole, he incurs an overall loss of 6%. What is the quantity of rice he sold at 20% loss?
- A) 300kg
- B) 410kg
- C) 360kg
- D) 210kg
- E) 500kg

#### **Option C**

#### **Solution:**

Quantity of rice sold at 20% loss = x kg (let)

Quantity of rice sold at 15% gain = (600 - x) kg

(600 - x) \* (115/100) + (x\*80)/100 = (600 \* 94)/100

- => x = 12600/35 = 360 kg
- A camel and a cart together cost Rs. 5000. If by selling the camel at a profit of 10% and the cart at a loss of 10% a total profit of 2.5% is made, then what is the cost price of the camel?
- A) Rs.4500
- B) Rs. 3125
- C) Rs. 3000
- D) Rs.2100
- E) Rs.3800

# View Answer

#### Option B **Solution:**

Let the cp of the camel and the cart be x and (8000-x) resp.

sp of camel = 1.1x

sp of cart = 0.9(5000-x)

Therefore.

1.1x \* 0.9(5000 - x) = 5000 \* 1.025

=> x = Rs. 3125

- If there is a loss of 40% when a good is sold at (2/5)th of its earlier selling price. Find the profit% after selling the good at a certain price.
- A) 24.15%
- B) 31.3%
- C) 47%
- D 35%
- E) 50%

#### **View Answer**

#### **Option E**

#### **Solution:**

CP = (2/3) of SP

SP = (100+P) / 100 of CP

Equating both the above equations,

Profit = 50%

- There are two watches of cost Rs. 800. One is sold at a profit of 16% and the other at a loss of 8%. If there is no loss or no gain in the whole transaction, the cost price of the watch on which the shopkeeper gains is?
- A) Rs. 400

- B) Rs.740
- C) Rs.504
- D) Rs.450
- E) Rs.645

Option A

# **Solution:**

profit ......loss +16 .....-8 -----0 8......16

1:2

Therefore,

price of watch sold at profit = (1/2) \* 800 = Rs. 400price of watch sold at loss = 2 \* 800 = Rs. 1600

- Niel bought 30kg rice at the rate of Rs.9.50/kg and 40kg of rice at the rate of Rs. 8.50/kg and mixed them. She told the mixture at the rate of Rs. 8.90/kg. Find the total profit or loss in the whole transaction.
- A) Rs.4 profit
- B) Rs.2 loss
- C) Rs.2 profit
- D) Rs.4 loss
- E) None of these

View Answer

Option B

# Solution:

Total CP = 30 \*9.50 + 40 \* 8.50 = 625

Total SP = 8.9(30+40) = 623

Loss = Rs.2

- EXAMS 25GART
- If a shopkeeper sell a TV at 15% profit and a DVD at 12% loss then he earns Rs. 540 as total profit but if he sells the TV at 12% loss and the DVD at 15% profit then there is no loss or profit. Find the price of the TV and the DVD?
- A) Rs.11,000 and Rs. 2000
- B) Rs.15,000 and Rs. 3000
- C) Rs.11,000 and Rs. 6000
- D) Rs.10,000 and Rs.8000
- E) Rs.17,000 and Rs. 4000

**View Answer** 

**Option D** 

# Solution:

27 \* 20 = Rs. 540

$$CP ext{ of } TV = 500 * 20 = Rs . 10,000$$

$$CP ext{ of } DVD = 400 * 20 = Rs. 8000$$

# Free Study Material Join: Telegram.me/ExamsCart

- A cloth merchant uses 120cm scale while buying instead a meter scale but uses an 80 cm scale while selling the same cloth. If he offers a discount of 20% on cash payment. Find the profit percent.
- A) 40%
- B) 35%
- C) 20%
- D) 15%
- E) 30%

# **View Answer**

#### **Option C**

#### **Solution:**

After discount = (80 \* 120)/100 = 96

Profit = 96 - 80 = 16

Therefore, Profit% = (16\*100)/80 = 20%

- An article is marked 50% over its cost price. Two successive discounts of 12% and 13(1/2)% are allowed on the marked price of the article. Find the profit or loss percent after selling at discount.
- A) 8%
- B) 10%
- C) 13%
- D) 14.18%
- E) 7.4%

#### View Answer

# Option D

#### **Solution:**

Let the CP be Rs. 100

SP = 150 \* (88/100) \* (86.5/100) = Rs. 114.18

Therefore,

= (14.18/100)\*100 = 14.18%



- A trader marked his goods at such a price that after allowing a discount of 12(1/2) % for cash payment,
- he makes a profit of 20%. What is the marked price of the good which costs Rs. 210? A) Rs.300
- B) Rs.210
- C) Rs.470
- D) Rs. 288
- E) Rs.200

#### View Answer

#### **Option D**

#### **Solution:**

Required MP = [210 \* (100+20)]/(100-12.5) = (210 \*120)/87.5 = Rs. 288

- 1. If a person reduce his selling price of an article by rs40 then the suggested profit of 33(1/3)% convert into loss of 20%. Find the cost price?
  - A) Rs60
  - B) Rs75
  - C) Rs100
  - D) Rs150

View Answer

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# Option B

# **Solution:**

- 2. The price of an article increase by 20% and a man now get 10kg less, if he also reduce his consumption by 20%, then find how much kg of article he used to purchase in normal price?
- A) 15kg

15 = 75

- B) 20kg
- C) 30kg
- D) 40kg

#### **View Answer**

#### **Option C**

# **Solution:**

```
. 100
80 120
120 -80 =40
40/120 * T =10
T = 30kg
```

- 3. A shopkeeper sell his goods at 25% loss but he uses false weight of 30%. Find the loss or profit of shopkeeper in this whole process?
- A) 50/7% profit
- B) 50/3% profit
- C) 50/7% loss
- D) 50/3% loss

#### **View Answer**

#### Option A

#### **Solution:**

. 
$$1000$$
  
 $700$   $750$   
 $750 - 700 = 50$   
 $50/700 *100 = 50/7\%$  profit

- 4. A shopkeeper sells an article at 25% profit. Had he bought it for 10% loss and sold it for rs16 less, he would have earned 30% profit. What is the actual cost price?
- A) 100
- B) 150
- C) 175
- D) 200

#### **View Answer**

# Option D

# **Solution:**

100 = 200

```
let C.P = 100

CP......SP

100.....125

At 10% loss

90.....117....125- 117= 8

. +30% profit

8 = 16

1 = 2
```

- 5. A dishonest milkman sells milk at cost price but he mixes water and earns 14(2/7)%. Find the ratio of mixture and milk in the mixture?
- A) 7:1
- B) 7:8
- C) 1:7
- D) 8:7

#### **View Answer**

#### **Option D**

# **Solution:**

milk: water 100 14(2/7)

7:1

Milk = 7

Mixture = 7+1 = 8

Mixture: milk

8:7

- 6. A man sells his two articles at Rs1200. At one he gains 25% and at another he gains 16(2/3)%. Overall he gains 20%. Find the cost price of first article?
- A) 500
- B) 400
- C) 600
- D) 700

#### **View Answer**

#### Option B

#### **Solution:**

7. A sold an article to B at the profit of 25%, B sold it to C at loss of 10% and C sold it to D at the profit of 20%. If D paid rs27, then how much A paid to buy this article?

A) Rs20

- B) Rs15
- C) Rs12
- D) Rs9

#### Option A

#### **Solution:**

```
125/100 * 90/100 * 120/100 * X = 27
```

$$X = rs20$$

- 8. A man buys some toffees at 5 toffee in 3rupee and same number of toffee at 5 toffee in rs4. He sold all of them at 5 toffee in 4 rupee. Find his overall gain or loss percent?
- A) 16(2/3)%
- B) 10%
- C) 20%
- D) 14(2/7)%

#### **View Answer**

#### **Option D**

#### Option I

**Solution:** . Rs.....Qty

. 3......5

4.....5

C.P Rs7 10toffees

He sold at 5toffees in Rs4 so for 10toffees he gets Rs8

C.P = Rs27.....S.P = Rs28

Profit % = 1/7 \*100 = 14(2/7) %

9. By selling 144 hens Mahesh suffer a loss equal to the selling price of 6 hens. Find his loss percent?

- A) 4%
- B) 3%
- C) 9%
- D) 4(1/2)%

#### **View Answer**

# Option A

#### **Solution:**

$$loss = C.P - S.P$$

S.P of 6 hen = C.P of 144 hens - S.P of 144 hens

S.P of 150 hens = C.P of 144 hens

6/150 \*100 = 4% loss

- 10. If a man wants to gain 33(1/3)% after allowing a discount of 16(2/3)%. Then find how much percent he has to increase his C.P to make M.P?
- A) 33(1/3)%
- B) 50%
- C) 60%
- D) 66(2/3)%

#### **View Answer**

**Option C** 

**Solution:** 

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gain $33(1/3)\% = 1/3$
C.PS.P
34
Discount $16(2/3)\% = 1/6$
M.PS.P
65
Now make S.P same and we will get.
C.P
1524
24-15 = 9
9/15 * 100 = 60%

1. A shopkeeper sold a T.V set for Rs17,940 with a discount of 12.5% and Gained 5%. If no discount is allowed then what will be his gain percent?

- A) 20%
- B) 25%
- C) 30%
- D) 15%
- E) 18%

View Answer

**Option A** 

**Solution:** 

$$MP - CP = 4$$

$$MP - CP = 4$$
  
 $(4/20)*100 = 20\%$ 

- 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

View Answer Option B **Solution:** 

```
(8*56 + 32*69 + 25*75)/65 = 69.70
(69.70/100) * 120 = 83.64
```

- 3. If the price of an article increased by 25% and his expenditure increases by 15%, a person gets 4kg less article. Find the original quantity of article (in kg).
- A) 50
- B) 54
- C) 45
- D) 40
- E) 48

# View Answer Option A Solution: 100 . 115......125 125 - 115 = 10 10/125 \* T = 4 T = 125 \* 4/10 = 50

- 4. An article is sold at 25% profit. Had it been sold at Rs30 less then there would have been a loss of 25%. What was the cost price (in Rupees)?
- A) 75
- B) 45
- C) 60
- D) 90
- E) 72

# View Answer Option C

**Solution:** 

- 5. Even after reducing the marked price of a fan by Rs64, a shopkeeper makes a profit of 15%. If the cost price of fan is Rs640 what percent of profit would have been made if he had sold the fan at the market price?
- A) 20%
- B) 25%

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- C) 30%
- D) 40%
- E) 34%

#### View Answer Option B

# Solution:

Profit = 15% = 3/20. So CP.....SP 20.....23 640.....736 M.P = 736+64 = 800

Profit % = 160/640\* 100 = 25%

- 6. A man gets a profit of 28% after allowing discount of 11(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%

# **View Answer**

MP - CP = 44%

# **Option C**

#### **Solution:**

Gain – 28% CP......SP . 100......128 Discount 11(1/9)% = 1/9 MP......SP 9......8 Make SP same CP.....SP.....MP 100......128.....144

7. The sale price of an article including the sales tax is Rs560. The rate of sales tax is 16(2/3)%. If the shopkeeper has made a profit of 14(2/7)% then find the cost price (in rupees)?

- A) 420
- B) 450
- C) 500
- D) 550
- E) 480

View Answer Option A Solution:

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Sales $\tan = 16(2/3)\% = 1/6$
After sales taxSP
. 76
Gain = 14(2/7)% = 1/7
CPSP
78
Make SP same
CPsales tax
212428
420560

- 8. A horse and a cow were sold for Rs49,500 each. The horse was sold at a loss 10% and cow at a gain of 10%. The entire transaction resulted in?
- A) Profit of Rs1000
- B) Loss of Rs1000
- C) No loss, no gain
- D) Profit of Rs2020
- E) Loss of Rs2000

# View Answer Option B

- 9. A manufacturer of a certain item can sell all items that he can produce at the selling price of Rs50 each. It cost him Rs30 in materials and labour to produce each item and he has overhead expenses of Rs5000 per week in order to operate the plant. The number of units he should produce and sell in order to make a profit of at least Rs3000 per week?
- A) 370
- B) 350
- C) 400
- D) 450
- E) 430

#### **View Answer**

#### **Option C**

#### Solution:

$$50x - (30x + 5000) = 3000$$

20x = 8000

$$x = 400$$

- 10. 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%

View Answer
Option C
Solution:
(600-400)/400 \*100 = 200/400 \* 100=50%

- 1. An article is sold at 33(1/3)% profit. If it had been sold at a profit of 40%, it would have fetched Rs50 more. Find cost price of article?
  - A) 700
  - B) 750
  - C) 600
  - D) 650
  - E) 720

#### View Answer

#### **Option B**

#### **Solution:**

1st 33(1/3)% profit so CP = 3, and SP = 3+1 = 4 2nd 40% = 2/5. So CP = 5, SP = 7

Now CP is same so make CP same

CP..... SP

15.....20

15.....21

20 to 21 is + 1, so 1 = 50 [increase in SP]

So 15=750

2. The percentage of loss when an article is sold at Rs60 is same as that of profit, when it is sold at Rs80.

The above mention profit or loss on the article is?

- A) 14(2/7) %
- B) 16(2/3)%
- C) 20%
- D) 25%
- E) 30%

#### View Answer

#### Option A

#### **Solution:**

CP = 60 + 80/2 = 70

Profit = 80-70=10

Profit % = 10/70 \* 100 = 14(2/7)%

- 3. A businessman sells a commodity at 10% profit. If he had bought it 10% less and sold it for rs2 less, then he would have gained 16(2/3)%. What is the cost price of the commodity?
- A) 32
- B) 48
- C) 36

```
D) 40
```

E) 30

#### View Answer

#### Option B

#### **Solution:**

```
10% profit = 1/10. So CP = 10, SP = 10+1 = 11
Now make CP 10% less, CP becomes = 9, Now there is 16(2/3)% profit So SP becomes 21/2 Original SP = 11, final = 21/2. Difference is 1/2 So 1/2 == 2 [Rs 2 less] 1 == 4 and 10 == 40
```

- 4. A dishonest shopkeeper sells milk at 20% gain and also he add water in the ratio 4:1 in it. What is his total profit?
- A) 50%
- B) 45%
- C) 40%
- D) 44%
- E) 52%

#### **View Answer**

#### **Option A**

#### **Solution:**

In the case of milk & water. The milk amount is consider as 100. Now during the comparison of water with milk, the water amount is taken as profit %.

```
See here : M W . 4:1 . 100:25\% profit on selling milk on CP but he sold it 20% gain So: 25+20+(25*20)/100=50\% total
```

- 5. The price of coal is increased by 20%. By what percent a family should decrease its consumption so that expenditure remains same?
- A) 25%
- B) 14(2/7)%
- C) 16(2/3)%
- D) 20%
- E) 13(1/3)%

#### **View Answer**

#### **Option C**

#### **Solution:**

increased 20% = 1/5

Since there is increase, so decrease in consumption will be 1/(5+1) = 1/6 = 162/3%In there was decrease, so increase in consumption would have been 1/(5-1) = 1/4 = 25%

# Free Study Material Join: Telegram.me/ExamsCart

- 6. After selling 12 balls a man suffer a loss equal to cost price of 6 balls. Find loss percent?
- A) 100%
- B) 50%
- C) 33(1/3)%
- D) 40%
- E) 30%

# View Answer Option B Solution: loss = CP-SP CP of 6 ball = CP of 12 ball – SP of 12 ball SP of 12 ball = CP of 6 ball Loss % = 6/12\*100=50%

- 7. A man bought a horse & a carriage for Rs60,000. He sold the horse at 15% profit and the carriage at a loss of 6%. But still he gained of 1% on overall. The cost price of the horse was?
- A) 18000
- B) 22000
- C) 25000
- D) 20000
- E) 15000

 View Answer

 Option D

 Solution:

 Horse carriage

 15% .....-6

 +1

 7.......14

1:2 1/3\*60000= 20000

- 8. A customer saves Rs400 at the rebate of 20% on market price of an article. If the cost price of the article for shopkeeper is Rs1200. Then find the profit percent of shopkeeper?
- A) 33(1/3)%
- B) 25%
- C) 20%
- D) 16(2/3)%
- E) 30%

#### View Answer

# Option A

#### **Solution:**

20% of M.P = 400 M.P = 2000 S.P = 1600 C.P= 1200 Profit % = 400/1200\* 100= 33(1/3)%

- 9. A trader wants to earn 16(2/3)% after allowing a discount of 25%. Find by how much % he has to increase his cost price to make M.P?
- A) 50%
- B) 55.55%
- C) 40%
- D) 55%
- E) 46.55%

# **View Answer**

#### Option B

#### **Solution:**

```
profit % = 16(2/3)% = 1/6. So CP = 6, and SP = 6+1 = 7
Discount = 25% = 1/4 So MP = 4, SP = 4-1 = 3
Make S.P Same in both cases
C.P.... S.P...... M.P
18...... 21...... 28
Difference between CP and MP is 10
So 10/18*100 = 55.55%
```

- 10. Nikita bought 30kg of wheat at the rate of 9.50/kg of wheat and the same amount of wheat at the rate of Rs8.50 per kg and mixed them. She sold the mixture at the rate of Rs 8.90/kg. Find her total profit or loss in the whole transaction?
- A) Rs2 profit
- B) Rs6 loss
- C) Rs2 loss
- D) Rs6 profit
- E) Rs4 loss

#### **View Answer**

#### **Option B**

#### **Solution:**

$$C.P = 30*9.50 + 30*8.5 = 540$$
  
 $S.P = 60 * 8.90 = 534$   
So loss of Rs 6.

1. A trader bought two horses for Rs 39,000. He sold one at a loss of 20% and another at a profit of 15%. If the selling price of each horse is same, then what are their cost price respectively?

A) Rs 20,000 and Rs 19,000

- B) Rs 23,000 and Rs 16,000
- C) Rs 24,000 and Rs 15,000
- D) Rs 21,000 and Rs 18,000
- E) None of these

# View Answer Option B

# Solution:

. Horse 1 Horse 2 CP 5\*23=115 20\*4=80

SP 4\*23=92 23\*4=92 [to make SP same]

CP = 115 + 80 = 195 = 39,000

=>1=200

115=23000

80=16000

- 2. The marked price of an article is 60% above the cost price. When marked price is increased by 30% and selling price is increased by 20%, then the profit doubles. What is the original selling price if marked price is Rs 3200?
- A) Rs 2500
- B) Rs 3000
- C) Rs 2000
- D) Rs 4160
- E) Rs 5000

#### **View Answer**

#### Option A

#### **Solution**:

CP = 10, so MP = 16

MP = 3200, so CP = 2000

Now See from options

Pick A) 2500

2500 - 2000 = 500 (profit)

If 20% of 2500 is increased, then We will get Rs 500 more, means the profit will get doubled as before

So A) is answer

- 3. An article passes successfully in the hand of three traders. Each trader sold it further at a gain of 20% of the cost price. If the last trader sold it for Rs 432 then what was the cost price?
- A) Rs 125
- B) Rs 256
- C) Rs 250
- D) Rs 432
- E) Rs 500

**Option C** 

#### **Solution**:

Ans=250

- 4. A dishonest dealer professes to sell his goods at 10% profit on Cost Price and also uses a false weight and gives 900 grams instead of 1 kg. Find his total gain.
- A) 11.11%
- B) 22.22%
- C) 21.11%
- D) 21.1%
- E) 23.33%

#### View Answer

# Option B

# Solution:

900 gms in place of 1000 gm

So profit% is (1000-900)/900 \* 100 = 100/9 %

10% Profit is on CP also

So required profit% is

10 + 100/9 + 10\*(100/9)/100 - successive formula

- 5. A man buys some toffees at 3 in Re. 1 and some at 3 in Rs 2 and sold them at 1 in Re. 1. Find his gain or loss %.
- A) 200% loss
- B) 200% profit
- C) 100% loss
- D) 100% profit
- E) 150 % profit

#### **View Answer**

hence %p=100%

#### **Option D**

#### **Solution**:

Doracio						
	Quantity	Rupee				
CP	3	1				
CP	3	2				
SP=	1	1 (*3 to make quantity equa	al)			
hence S	Sp 3	3				
Total Cp of 6 toffee= 3						
Sp og 6 toffee=6						

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- 6. A trader wants to increase his cost price in such a way that after giving 25% discount he earns 20% profit. Find how much percent he increases his Cost Price?
- A) 60%
- B) 45%
- C) 50%
- D) 40%
- E) None of these

#### **Option A**

#### **Solution**:

discount=25% = 1/4

MP: SP=4:3

Profit=20%=1/5

CP:SP= 5:6

make ratio equal

MP:CP:SP=8:5:6

=3/5\*100=60%

- 7. 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

#### View Answer

# **Option C**

#### **Solution**:

loss= CP-SP

CP of 5=CP of 15- SP of 15

CP of 10=SP of 15=400

CP of 1 = 40

- By selling 12 oranges for Rs 60 a man losses 25%. The number of oranges he has to sell for Rs 8. 100 so as to gain 25% is?
- A) 15
- B) 12
- C) 20
- D) 16
- E) 13

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#### View Answer

#### Option B

#### **Solution**:

 $Loss=25\%=1/4 \Rightarrow CP:SP=4:3 ;SP=60 hence CP=80$ 

Profit=25%=1/4 => CP:SP=4:5; CP=80 hence SP=100

for gaining 25% in Rs 100 item he has to sell an item of Rs 80; In Rs 80 12 oranges.

- 9. A person sold an article at 16 (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 %

#### **View Answer**

#### Option A

#### **Solution**:

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\*100=20%

- 10. 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

#### View Answer

#### **Option D**

#### **Solution:**

Discount=2%=1/50 MP:SP=50:49

Profit=40%=2/5=> CP:SP=5:7

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\*100= 66 (2/3)%

- 1. By selling 20 articles, a person gains CP of 5 articles. Find the profit% incurred by him.
  - A) 33 1/3%
  - B) 25%
  - C) 20%
  - D) 16 2/3%

E) None of these

#### **View Answer**

#### **Option B**

#### **Solution:**

Profit = SP - CP

 $CP ext{ of 5 articles} = SP ext{ of 20 article} - CP ext{ of 20 articles}$ 

So CP of 25 articles = SP of 20 articles

Profit% = 5/20 \* 100 = 25%

- 2. A person wants to sell his goods at 20% profit after allowing a discount of 16 2/3% on marked price. How much % above the cost price should he mark his article?
- A) 20%
- B) 36 2/3%
- C) 34 5/6%
- D) 44%
- E) 38%

#### **View Answer**

#### **Option D**

#### **Solution:**

Use formula:

MP = (100+p%)/(100-d%) \* CP

OR

Profit% = 20% = 1/5 (profit = 1, CP = 5)

SP = CP + P = 5 + 1 = 6....(1)

Discount% =  $16 \frac{2}{3}\% = \frac{50}{3}\% = \frac{1}{6} \text{ (discount} = 1, MP = 6)$ 

Mp - discount = SP

 $6 - 1 = 5 \dots (2)$ 

Make SP equal in both equations (1) and (2)

Multiply (1) by 5 and (2) by 6

so CP : SP : MP = 25 : 30 : 36

So see CP and MP, required % = (36-25)/25 \* 100 = 44%

- 3. Three successive discounts of 20%, 25% and 16 2/3% is equivalent to
- A) 50% profit
- B) 56 2/3% profit
- C) 40% loss
- D) 125/3% loss
- E) 25/6% profit

#### **View Answer**

#### Option A

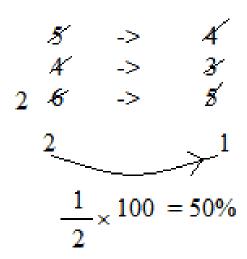
#### **Solution:**

Use successive formula:

$$a + b + a*b/100$$

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So 
$$-20 - 25 + 20*25/100 = -40\%$$
  
Next:  $-40 - 50/3 + (50)(50/3)/100 = -50\%$   
OR  
 $20\% = 1/5 \ 5 -> 4$   
 $25\% = 1/4 \ 4 -> 3$   
 $16 \ 2/3\% = 1/6 \ 6 -> 5$   
Cancel out like this:



- 4. After selling a table worth Rs 12000 at 20% loss, a trader buys a TV with the same money. Next he sold the TV at 20% profit. What is his profit/loss in the whole transaction?
- A) Rs 480 loss
- B) Rs 450 loss
- C) Rs 480 gain
- D) No profit no loss
- E) Rs 420 gain

View Answer

Option A

**Solution:** 

12000 – 2400 (20% loss) = 9600 9600 + 1920 (20% profit on 9600) = 11520

So 12000 - 11520 = 480 Rs loss

- 5. A sold a watch to B at 10% loss. B sold it to C at 11.11% loss and c again sold it to A at 12.5% profit. How much profit/loss % is incurred by A?
- A) 10% profit
- B) 12% profit
- C) 10% loss
- D) 15% loss
- E) No profit no loss

#### **Option E**

#### **Solution:**

A to B to C

A to B 10% loss, 10% = 1/0. So SP for A = 10-1 = 9

B to C 11.11% loss, 11.11% = 1/9, so SP for B = 9-1 = 8

C to A 12.5% profit, 12.5% = 1/8, so SP for C or CP for A = 1+8=9

A first sold to B at 9, and after he got from C at 9, so no profit no loss

- 6. After selling an article at some price, a trader gain 20% on the selling price. Find his profit% on the cost price.
- A) 50%
- B) 33 1/3%
- C) 16 2/3%
- D) 25%
- E) 15 1/5%

#### **View Answer**

#### **Option D**

#### **Solution:**

Profit = 20% on SP

20% = 1/5, (1 - profit, 5 - SP)

CP = SP - Profit

4 = 5 - 1

so profit% on CP = profit/CP \*100 = 1/4 \* 100 = 25%

- 7. A man bought some toffees at the rate of 3 toffees per Re. and same number at the rate of 2 toffees per Re. He mixes them and sold 3 toffees for Rs 2. Find his profit/loss% in the whole transaction.
- A) 20% loss
- B) 20% profit
- C) 60% loss
- D) 60% profit
- E) None of these

#### **View Answer**

#### **Option D**

#### **Solution:**

Let he buys 6 toffees

Case 1: 3 toffees per Re so 6 toffees for Rs 2

Case 2: 2 toffees per Re so 6 toffees for Rs 3

Total CP of 12 toffees = 2+3=5

Now he sold at 3 for Rs 2. So 12 toffees for Rs 8

Now CP = Rs 5, SP = Rs 8, so profit% = 3/5 \* 100 = 60% profit

- 8. A shopkeeper sold his articles at cost price. But he used false weights and gives 800 gm instead of 1 kg. Find his profit%.
- A) 16 2/3%
- B) 20%
- C) 10%
- D) 33 1/3%
- E) None of these

#### **Option E**

# **Solution:**

CP of 1000 gm = SP of 800 gm So gain% = (1000-800)/800 \* 100 = 25%

- 9. A trader sold his goods at 20% profit and along with this he used weights of 800 gm instead of 1 kg. Find his total profit%.
- A) 40%
- B) 45%
- C) 50%
- D) 55%
- E) 60%

#### View Answer

#### **Option C**

#### **Solution:**

Profit is 20%. So

1000 gm + 20% of 1000 gm = 1200 gm

so CP of 1200 gm = SP of 800 gm

Sp profit% = (1200-800)/800 \* 100 = 50%

- 10. A loss of 20% is made by selling an article. Had it been sold for Rs 240 more, there would have been a profit of 10%. What would be the selling price of the article if it is sold at 25% profit?
- A) Rs 950
- B) Rs 1020
- C) Rs 975
- D) Rs 1000
- E) Rs 1075

#### **View Answer**

#### **Option D**

#### **Solution:**

$$Loss = 20\% = 1/5 (loss = 1, CP = 5)$$

$$CP - Loss = SP$$

$$5 - 1 = 4 \dots (1)$$

Profit% = 
$$10\% = 1/10$$
 (Profit = 1, CP = Rs 10)

$$CP + P = SP$$

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10 + 1 = 11 ......(2) Make CP same in both equations (1) and (2) by multiplying (1) by 2. SO 10 - 2 = 8And 10 + 1 = 11So first, SP was 8, now is 11 So (11-8) -> 240 3 -> 240 So 10 (CP) -> 240/3 \* 10 = 800So after 25% profit SP -> 1000



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