



# MATHS

## BOOKS - ARIHANT SSC MATHS (HINGLISH)

### PROFIT, LOSS AND DISCOUNT

#### Examples

1. A fruit seller buys 300 oranges at 5 for Rs. 8 and sold at 2 Rs. 5. Find :

- (i) the cost price of each orange.
- (ii) The selling price of each orange.
- (iii) profit or loss on selling one orange
- (iv) his total profit or loss on selling all the oranges.



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2. A shopkeeper buys 100 eggs at Rs. 1.20 per piece. Unfortunately 4 eggs got spoiled during transportation. The shopkeeper sells the

remaining eggs at Rs. 15 a dozen. Find his profit.



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**3.** Aviral purchased a computer for Rs. 47,000. He had to sell it for Rs. 45,800. Find his profit or loss per cent.



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4. A dealer sold 600 quintals of sugar at a profit of 7%. If a quintal of sugar cost him Rs. 1600, find his total profit and the selling price.



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5. A dealer buys 200 quintals of wheat at Rs. 1200 a quintal. He spends Rs. 10,000 on transportation and storage. Then he sells the wheat at Rs. 13 per kg. Find his profit or loss. Also calculate it as a percentage.





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6. Find the cost price of an article which is sold for Rs. 220 at a loss of 12%.



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7. By selling a colour TV for Rs. 23520, a dealer suffers a loss of 4%. What is the cost price of the colour TV? At what price should he sell it to gain 8%.



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8. If the cost price of an article is Rs. 300 and the percent markup is 20% . What is the marked price?



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9. If the marked price of an article is Rs. 450 and markup percentage is 12.5%, what is the cost price ?



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**10.** If the marked price of an article is Rs. 660 and the discount is 10%, then what is the selling price of the article?



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**11.** If the markup percentage of an article is 50% and discount percentage is also 20%, then the profit percentage will be :



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**12.** A trader markup the goods by 10% and then give a discount of 10%. What is the profit or loss percentage?



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**13.** Successive discount of 10% and 5% is equivalent to :

A. 16.5%

B. 15 %

C. 15.5 %

D. 14.5 %

**Answer:** 16.5 %



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**14.** A man sells two wrist watches one at a profit of 10% and another at a loss of 10%, but the selling price of each watch is Rs. 200. Find the :

(1) percentage profit or loss.

(2) net amount of profit or loss.



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**15.** There were two articles and the sum of cost prices of these article is Rs. 500. One of them was sold at a profit of 20% and another at a loss of 20%. Besides if the selling prices of both the articles were same. Find the amount of overall loss.



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**16.** If the cost price of 15 apples is same as the selling price of 20 apples. What is the gain or loss per cent?



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**17.** If the selling price of 10 CDs is the same as the cost price of 12 CDs. What is the profit or loss percent?



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**18.** A dealer by selling 12 oranges gets the cost price of 15 oranges. What is the percentage profit ?



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**19.** By selling 8 bananas, a fruit seller gains the selling price of 1 banana. Calculate his gain per cent.



**Watch Video Solution**

**20.** By selling 18 chocolates, a vendor loses the selling price of 2 chocolates. Find his loss percent.



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**21.** A trader sell all his articles at the cost price but gives 10 % less amount as he should give. What is his percentage profit?



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22. A trader by means of his false balance defrauds to the extent of 10% in buying goods and also defrauds to 10% in selling. Find his gain per cent.



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## Introductory Exercise 6 1

1. A towel is sold for Rs. 198 at a gain of 10%.  
What is the cost price of the towel ? At price  
must it be sold be gain 25%?



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2. A man sold a watch at Rs. 6000, at a loss of  $33\frac{1}{3}\%$ . Find the cost price ?



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3. By selling a shirt for Rs. 285 a shopkeeper loses 5%. At what price should he sell the shirt so as to gain 15% ?



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4. Sufyan bought 1200 eggs at Rs. 16 a dozen. At what price per hundred must he sell the eggs so as to earn a profit of 15% ?



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5. Ran singh purchased two camels for Rs. 18,000 and Rs. 15,000 respectively. He sold them at a loss of 15% and a gain of 19% respectively. Find the selling price of each of

the camels. Also find the overall gain or loss per cent in the transaction.



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## Introductory Exercise 6 2

1. The cost price of a scooter is Rs. 20,000 and the profit percent is 12%. What is the selling price ?

A. 2400

B. 22040

C. 2600

D. 22400

**Answer: D**



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2. The SP of an article is Rs. 3200 and the profit per cent is  $33\frac{1}{3}\%$ . Find the cost price.

A. Rs. 20000

B. Rs. 2000

C. Rs. 2400

D. Rs. 3000

**Answer: C**



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**3.** The CP of an article is  $\frac{5}{6}$  th of the SP. What is the percentage profit or loss?

A. 20% loss

B. 16.66% profit

C. 16.66% loss

D. 20% profit

**Answer: D**



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**4.** The MP of a camera is  $\frac{3}{2}$  of the CP and SP is  $\frac{9}{10}$  of MP. Find the percentage profit or loss.

A. 25% profit

B. 35% profit

C. 33.33 % loss

D. none of these

**Answer: B**



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5. The MP of an article is 30% higher than its CP and 20% discount is allowed on this article then the profit percentage:

A. 0.1

B. 0.14

C. 0.04

D. 0.26

**Answer: C**



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**6.** An article is sold for Rs. 1980 at 10% profit.

What is the cost price?

A. Rs. 198

B. Rs. 1800

C. Rs. 1900

D. Rs. 1600

**Answer: B**



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7. On selling an article for Rs. 576 a trader loses 4%. In order to gain  $4\frac{1}{6}\%$ , he must sell that article for

A. Rs. 636

B. Rs. 676

C. Rs. 625

D. can't be determined

**Answer: C**



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**8.** The per cent profit made when an article is sold for Rs. 56 is thrice as when it is sold for Rs. 42. The cost price of the article is :

A. Rs. 48

B. Rs. 49

C. Rs. 50

D. Rs. 35

**Answer: D**



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**9.** A shopkeeper uses a weight of 460 g instead of 500 g and sells the articles at the cost price. What is the profit percentage?

A. 0.4

B. 0.23

C.  $8\frac{16}{23}\%$

D. 0.2

**Answer: C**



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**10.** A trader uses a weight of 920 g instead of 1 kg and sells the articles at the marked price

which is 15% above the cost price. Find the profit percentage.

A. 0.2

B. 0.23

C. 0.25

D. can't be determined

**Answer: C**



**Watch Video Solution**

11. If a gift pack is sold at a gain of 6% instead of being sold at a loss of 6%, then the seller gets Rs. 6 more. The cost price of gift?

A. 0.2

B. 0.23

C. 0.25

D. can't be determined

**Answer: C**



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12. A man sells a bicycle at a gain of 10%. If he had bought it at 10% less and sold it for Rs. 132 less, he would have still gained 10%. The cost price of the article is

A. Rs. 1000

B. Rs. 1200

C. Rs. 1500

D. Rs. 1320

**Answer: B**



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**13.** An item costing Rs. 600 is being sold at 20% loss. If the price is further reduced by 12.5%, the selling price will be:

A. Rs. 400

B. Rs. 380

C. Rs. 420

D. Rs. 525

**Answer: C**



**14.** While selling an electric fan, a dealer gives a discount of 5%. If he gives a discount of 8%, he earns Rs. 36 less at profit. The marked price of the fan is :

A. Rs. 1000

B. Rs. 1200

C. Rs. 800

D. none of these

**Answer: B**



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**15.** If a commission of 10% is given on the marked price of a book, the publiser gains 20%. If the commission is increased to 15%, the gain of publisher is:

A. 0.1333

B. 0.15

C. 0.18

D. data insufficient

**Answer: A**



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**16.** A retailer buys a cellphone at a discount of 15% and sells it for Rs. 5865. Thus, he makes a profit of 15%. The discount is:

A. Rs. 200

B. Rs. 850

C. Rs. 750

D. Rs. 900

**Answer: D**



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**17.** At what percent above the cost price must an articles be marked so as to gain 17% after allowing a discount of 10%?

A. 0.34

B. 0.7

C. 0.3

D. 0.27

**Answer: C**



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**18.** A merchant marks his goods at Rs. 900 and allows a discount of 25%. If he still gain 12.5%, then the cost price of the article is:

A. Rs. 500

B. Rs. 600

C. Rs. 720

D. can't be determined

**Answer: B**



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**19.** A vendor buys oranges @ Rs. 2 for 3 oranges and sells them at a rupee each. To make a profit of Rs.10, he must sell :

A. 10 oranges

B. 20 oranges

C. 30 oranges

D. 40 oranges

**Answer: C**



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**Exercise Level 1**

1. Abhishek and Bhanu both are dealers of KML scooters. The price of a KML Scooter is Rs. 28,000. Abhishek gives a discount of 10% on whole, while Bhanu 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 prices?

A. Rs. 240

B. Rs. 420

C. Rs. 640

D. none of these

**Answer: A**



**Watch Video Solution**

2. A trader sells two articles, one at a loss of 10% and another at a profit of 15% but finally there is no loss or gain. If the total sale price of these two article is Rs. 30,000, find the difference between their cost prices :

A. Rs. 5000

B. Rs. 6000

C. Rs. 7500

D. none of these

**Answer: B**



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**3.** A milkman purchases the milk at Rs.  $x$  per litre and sells it at Rs.  $2x$  per litre still he mixes 2 litres water every 6 litre of pure milk. What is the profit percentage?

A. 1.16

B. 166.66 %

C. 60 %

D. 100 %

**Answer: B**



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4. 60% goods are sold at 5% loss while rest are sold at 10% profit. If there is a total profit of Rs. 100, then the worth of goods is

A. Rs. 6000

B. Rs. 5000

C. Rs. 10000

D. none of these

**Answer: C**



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5. A retailer bought 20 kg tea at a discount of 10%. Besides 1 kg tea was freely offered to him by the wholesaler at the purchase of 20 kg tea.

Now he sells all the tea at the marked price to a customer. What is profit percentage of retailer?

A. 0.3

B. 0.12

C. 16.66 %

D. none of these

**Answer: C**



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6. Two articles are sold at the same price. One at a profit of 75% and another one at a loss of 30%. What is the overall profit or loss?

A. 22.5 % profit

B. 57.5 profit

C.  $13\frac{2}{7}$  % loss

D. none of these

**Answer: D**



**Watch Video Solution**

7. What is percentage profit in selling an article at a discount of 20% which was earlier being sold at a 40% profit?

A. 0.2

B. 0.14

C. 0.28

D. 0.12

**Answer: D**



**Watch Video Solution**

8. A man bought 18 oranges for a rupee and sold them at 12 oranges for a rupee. What is the profit percentage?

A. 33.33 %

B. 50 %

C. 66.66 %

D. none of these

**Answer: B**



**Watch Video Solution**

9. 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 the product?

A. Rs. 2304

B. Rs. 1536

C. Rs. 2200

D. it is not possible

**Answer: A**



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10. Tinkawala purchased the articles for Rs. 123684. He sold 60 % of those at a profit of 16.66 % and rest at a loss. Find the loss percentage on the remaining if the overall loss is 14 % ?

A. 20 %

B. 30 %

C. 60 %

D. 66.66 %

**Answer: C**



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11. What should be the minimum markup percentage such that after giving a discount of  $66\left(\frac{2}{3}\right)\%$ , there will not be a loss?

A. 2

B. 1.3333

C. 1

D. 150 %

**Answer: A**



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**12.** The ratio of cost price and the 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.  $16.66\%$

B.  $20\%$

C.  $25\%$

D. 33.33 %

**Answer: A**



**Watch Video Solution**

**13.** A dealer gives as much discount (in per cent) as the markup (in per cent) above the cost price. What is the profit or loss per cent?

A. 10 %

B. 1 %

C. 4 %

D. can't be determined

**Answer: D**



**Watch Video Solution**

**14.** A merchant decided to markup his goods by 20 percent and then offered a 10 percent discount. What will be the percentage of profit or loss?



**Watch Video Solution**

**15.** A shopkeeper sold 12 cameras at a profit of 20% and 8 cameras at a profit of 10%. If he had sold all the 20 cameras at a profit of 15%, then his profit would have been reduced by Rs.36. What is the cost price of each camera?

A. 100

B. 150

C. 180

D. 220

**Answer: C**



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**16.** Mr. Mittal purchased a car for ₹ 3,00,000 and a bike for his son for ₹ 1,00,000. He sold the car at a profit of 10 % and bike at a loss of 20 % . What is the net gain or loss?

A. 2% gain

B. 1.5% loss

C. 2.5% loss

D. 2.5% gain

**Answer: D**



**Watch Video Solution**

**17.** A trader sells 20 kg of sugar at Rs.400 . A customer asks 20% discount and he agrees to it but instead of 1kg he gives 4% less sugar. What is the effective discount that the customer gets?

A. 0.16

B. 0.1666

C. 0.155

D. 0.196

**Answer: B**



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**18.** The profit percentage on the three articles A, B and C is 10%, 20% and 25% respectively and the ratio of the cost prices is 1:2:4. Also

the ratio of number of articles sold of A, B and C is 2: 5: 2 then the overall profit percentage is

A. 0.185

B. 0.21

C. 0.75

D. none of these

**Answer: B**



**Watch Video Solution**

**19.** The marked price of an article is increased by 25% and the selling price is increased by 16.66% , then the amount of profit doubles. If the original marked price be Rs. 400 which is greater than the corresponding cost price by 33.33% , what is the increased selling price?

A. 240

B. 360

C. 420

D. 600 %

**Answer: C**



**Watch Video Solution**

**20.** A shopkeeper calculate his profit per cent on the selling price which comes out to be 30%. If it had been calculated as usual on the cost price then what is the required percentage profit?

A.  $42\frac{6}{7}\%$

B.  $4\frac{7}{27}\%$

C.  $7\frac{6}{42}\%$

D. none of these

**Answer: A**



**Watch Video Solution**

**21.** An item was sold after giving two successive discount of 20 % and 10 % respectively, If the item was sold for ₹ 468. The marked price of that item is :

A. Rs. 600

B. Rs. 600

C. Rs. 575

D. Rs. 650

**Answer: D**



**Watch Video Solution**

**22.** The cost price of an article 'A' is Rs. 160 and selling price of another article 'B' is Rs. 240. If the selling price of A will be equal to the cost

price of B, then the profit after selling A is  
\_and B, we get profit of 48 Rs. is

A. 16.66 %

B. 50 %

C. 25 %

D. none of these

**Answer: C**



**Watch Video Solution**

**23.** A single discount equivalent to three successive discount of 5%, 10%, 20% is :

A. 68.4 %

B. 35 %

C. 31.6 %

D. 32 %

**Answer: C**



**Watch Video Solution**

24. Ragini purchases oranges at ₹ 10 per dozen and sells them at ₹ 12 for every 10 oranges. What is the profit percentage?

A. 0.4

B. 0.44

C. 0.6

D. 0.48

**Answer: B**



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**25.** A trader uses a weighing balance that shows 1250 g for a kilogram. He further marks-up his cost price by 20 %. What is the profit percentage ?

A. 0.05

B. 0.45

C. 0.5

D. 0.3

**Answer: C**



**Watch Video Solution**

**26.** On selling an article for Rs. 240, a trader loses 4%. In order to gain 10% he must sell that article for :

A. Rs. 275

B. Rs. 340

C. Rs. 320

D. Rs. 264

**Answer: A**



**Watch Video Solution**

27. A merchant marks his goods at Rs. 300 and allows a discount of 25%. If he still gains 12.5%, then the cost price of article is:

A. Rs. 220

B. Rs. 200

C. Rs. 240

D. Rs. 260

**Answer: B**



28. An item costing Rs. 200 is being sold at 10% loss. If the price is further reduces by 5%, the selling price will be :

A. Rs. 170

B. Rs. 171

C. Rs. 180

D. Rs. 181

**Answer: B**



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29. A person sold two cows each for Rs. 9900. If he gained 10% on one and lost 20% on the other, find the overall loss or profit.

- A. He gained Rs. 200
- B. He lost Rs. 200
- C. He neither gained nor lost
- D. none of the above

**Answer: D**



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**30.** Two third of a consignment was sold at a profit of 5% and the remainder at a loss of 2%.

If the total profit was Rs. 400, then value of the consignment (in rupees) was:

A. 15000

B. 20000

C. 10000

D. 12000

**Answer: A**



**Watch Video Solution**

**31.** A fruit seller declares that he sells fruits at the cost price. However, he uses a weight of 450 g instead of 500 g. His percentage profit is:

A. 10 %

B.  $11\frac{1}{9}$  %

C. 12 %

D.  $12\frac{2}{9}\%$

**Answer: B**



**Watch Video Solution**

**32.** A person loses Rs. 20 by selling some banana at the rate of Rs. 3 per banana and gains Rs. 30, if he sells them at Rs. 3.25 per banana. The number of bananas sold by him:

A. 100

B. 200

C. 120

D. 2400

**Answer: B**



**Watch Video Solution**

**33.** Due to an increase of 30 % in the price of eggs, 3 eggs less are available for ₹ 9.10. The present rate per egg is :

A. 91 paise

B. 78 paise

C. 48 paise

D. 84 paise

**Answer: A**



**Watch Video Solution**

**34.** By selling 12 apples for a rupee, a man loses 20 %. How many for a rupee should he sell to gain 20 % ?

A. 8

B. 10

C. 15

D. 16

**Answer: A**



**Watch Video Solution**

**35.** A dealer buys a washing machine, listed at Rs. 10000 and gets 10% and 20% successive discounts. He spends 10% of his CP of

transport. At what price (in rupees) should he sell the washing machine to earn a profit of 10% ?

A. 8722

B. 7892

C. 8712

D. 8840

**Answer: C**



**Watch Video Solution**

**36.** 6% more is gained by selling a coat for Rs. 1425 than by selling it for Rs. 1353. The cost price of the coat is :

A. Rs. 1000

B. Rs. 1250

C. Rs. 1500

D. Rs. 1200

**Answer: D**



**Watch Video Solution**

37. By selling a wrist watch at Rs. 405 the shopkeeper incurs a loss of 10%. What is the gain or loss percentage if he sells the same watch at Rs. 465 ?

A. profit of 10%

B. loss of 6%

C. profit of 3.33%

D. no profit no loss

**Answer: C**



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38. Titan 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 paying Rs. 990. Thus the profit of retailer is  $2\frac{3}{11}\%$ . What is the cost incurred by the Titan to produce it ?

A. 768

B. 750

C. 800

D. 820

**Answer: C**



**Watch Video Solution**

**39.** Pepsi and Coke, there are two companies selling the packs of cold-drinks. For the same selling price Pepsi 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. 143: 144

B. 19: 11

C. 136: 135

D. 73: 77

**Answer: C**



**Watch Video Solution**

**40.** When a shopkeeper reduces the selling price from 1080 to 1026 its loss increases by 4 percentage point. What is the selling price of this same article when it fetches a profit of 4% ?

A. Rs. 1392

B. Rs. 1404

C. Rs. 1450

D. Rs. 1350

**Answer: B**



**Watch Video Solution**

**41.** The difference between CP and SP of a table fan is Rs. 175 when it gives the profit of 14%. What is the selling price of that fan?

A. 1225

B. 1450

C. 1425

D. 1275

**Answer: C**



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**42.** A company instead of raising the mark-up by 20 % discounted the cost price by 20 % while sticking the price tag on its product. Further the company offers a discount of 6.25 % to its customer. In this process company incurs a loss of Rs. 37.5 on a single article. What is the selling price of that article?

A. 417.5

B. 112.5

C. 365.5

D. none of these

**Answer: B**



**Watch Video Solution**

**43.** When an article is sold for Rs. 703 loss incurred is 25% less than the profit earned on selling it at Rs. 836. What is the selling price of the article when it earns a profit of 20% ?

A. 912

B. 1576

C. 1532

D. 1092

**Answer: A**



**Watch Video Solution**

**44.** Arun bought toffees at 6 for a rupee. How many for a rupee he should sell to gain 20% ?

A. 3

B. 4

C. 5

D. can't be determined

**Answer: C**



**Watch Video Solution**

**45.** A scientific calculator is available at University Shoppe in Hazratganj at 20% discount and the same is available at only 15%

discount at Universal Shoppe Bhootnath Market. Ms. Agrawal has just sufficient amount of Rs. 800 to purchase it at Universal Shoppe Hazratganj. What is the amount that Ms. Agrawal has less than the required amount to purchase it at Universal Shoppe Bhootnath?

A. Rs. 70

B. Rs. 50

C. Rs. 100

D. data insufficient

**Answer: B**



Watch Video Solution

**46.** The balance of a trader weight 10% less than it should be still the trader marks up his goods to get the overall profit of 20% . What is the markup on the cost price.

A. 0.4

B. 0.08

C. 0.25

D. 16.66 %

**Answer: B**



**Watch Video Solution**

**47.** ITC sells one product at a profit of 20 %  
another at a loss of 20 % at the same selling  
price. What is the loss incurred by ITC?

A. 0.01

B. 0.02

C. 0.04

D. 0

**Answer: C**



**Watch Video Solution**

**48.** ITC sells one product at a profit of 20% another at a loss of 20% at the same selling price. If SP of each article be Rs. 200, what is the amount of loss?

A. A. Rs. 10

B. B. Rs. 16

C. C. Rs. 16.66

D. D. none of these

**Answer: C**



**Watch Video Solution**

**49.** The cost price of 19 articles is same as the selling price of 29 articles. What is the loss % ?

A. 0.35

B. 0.3448

C. 0.5263

D. none of these

**Answer: B**



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**50.** The selling price of 13 articles is same as the cost price of 23 article. What is the profit percentage?

A. 43.47 %

B. 74.83 %

C. 78 %

D. 76.92 %

**Answer: D**



**Watch Video Solution**

**51.** A trader can procure 34 pencils by selling 28 pencils. what is the ratio of cost price to the selling price of a pencil?

A. 2:3

B. 14: 17

C. 9: 7

D. 4: 7

**Answer: B**



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**52.** At style cloth emporium the shopkeeper measures 20 % less for every metre of cloth also he marks-up goods by 20 % . What is the profit percentage?

A. 50 %

B. 80 %

C. 75 %

D. none of these

**Answer: A**



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**53.** A bookseller procures 40 books for ₹ 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. 720

B. 960

C. 1200

D. 1440

**Answer: C**



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**54.** The profit percentage of A and B is same on selling the articles at ₹ 1800 each but A calculates his profit on the selling price while B calculates it correctly on the cost price which is equal to 20%. What is the difference in their profits?

A. Rs. 360

B. Rs. 60

C. Rs. 540

D. Rs. 450

**Answer: B**



**Watch Video Solution**

**55.** Each of A and B sold their article at ₹ 1818 but A incurred a loss of 10 % while B gained by 1 % . What is the ratio of cost price of the articles of A to that of B?

A. 101 : 90

B. 85 : 89

C. 81 : 75

D. none of these

**Answer: A**



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**56.** A trader sold an article at a loss of 5 % but when he increased the selling price by ₹ 65 he gained 3.33 % on the cost price. If he sells the same article at ₹ 936, what is the profit percentage?

**A. 0.15**

B. 16.66 %

C. 20 %

D. data insufficient

**Answer: C**



**Watch Video Solution**

**57.** Even after a discount of  $q\%$  on marked price a trader gains by  $p\%$  What is the markup percentage over the cost price?

A.  $\frac{p + q}{(q - p)} \times 100$

B.  $\frac{p \div q}{(100 - p)} \times 100$

C.  $\frac{p + q}{(100 - p)} \times 100$

D. not possible

**Answer: C**



**Watch Video Solution**

**58.** A milk man mixes 10% water in pure milk but he is not content with it. So he again mixes 10% more water in the previous mixture.

What is the profit percentage of milk if he sells it at cost price

A. 11.11 %

B. 20 %

C. 21 %

D. 12.1 %

**Answer: C**



**Watch Video Solution**

**59.** A person sold an electronic watch at ₹ 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 profit, then the new selling price will be:

A. Rs. 312

B. Rs. 150

C. Rs. 192

D. Rs. 180

**Answer: A**



**Watch Video Solution**

**60.** A trader mixes 25 % kerosene to his petrol and then he sells the whole mixture at the price of petrol. If the cost price of kerosene be 50 % of the cost price of petrol/what is the net profit percentage?

A.  $11\frac{1}{9}\%$

B.  $12\frac{1}{9}\%$

C.  $9\frac{1}{11}\%$

D.  $20\%$

**Answer: A**



**Watch Video Solution**

**61.** A retailer cheats both to his whole-seller and his customer by  $10\%$  by his faulty balance i.e., he actually weighs  $10\%$  more while purchasing from wholesaler and weighs  $10\%$  less while selling to his customer. What

is his net profit percentage, when he sells at CP?

A.  $22\frac{2}{11}\%$

B.  $22\frac{2}{9}\%$

C.  $20\%$

D.  $21\%$

**Answer: B**



**Watch Video Solution**

**62.** A trader procures his goods from a wholesaler, whose balance reads 1200 g for 1000 g. The trader sells all the procured goods to a customer after marking up the goods at 20 % above the cost price. What is his overall percentage profit or loss in the whole transaction?

A. 38% profit

B. 50% profit

C. no profit no loss

D. none of the above

**Answer: C**



**Watch Video Solution**

**63.** 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 ₹ 280 he calculates his profit as  $14\frac{2}{7}$  What is his actual profit percentage?

A. 0.2

B. 0.1666

C. 0.25

D. data insufficient

**Answer: B**



**Watch Video Solution**

**64.** A Vendor sells his articles at a certain profit percentage. If he sells his articles at  $\frac{1}{3}$  of his

actual selling price, then he incurs a loss of 40 % . What is his actual profit percentage?

A. 0.72

B. 1.2

C. 0.8

D. none of these

**Answer: C**



**Watch Video Solution**

**65.** A retailer increases the selling price by 25 % due to which his profit percentage increases from 20 % to 25 %. What is the percentage increase in cost price?

A. 0.2

B. 0.3

C. 0.25

D. 0.5

**Answer: A**



**Watch Video Solution**

**66.** Abhinav saves Rs. 25 by getting 6.66% discount on a textbook. What is the amount of money (in Rs.) paid by him?

A. 4.5

B. 350

C. 2.25

D. 375

**Answer: B**





**67.** At kul-kul petrol pump the operator gives 5% less petrol but he sells it at the cost price. What is his profit in this way?

A. 0.05

B. 5.6 %

C. 5.26 %

D. 4.78 %

**Answer: C**



Watch Video Solution

**68.** Due to reduction of 25% in price of oranges a customer can purchase 4 oranges more for ₹ 16. What is original price of an orange?

A. Rs. 1

B. Rs. 1.33

C. Rs. 1.5

D. Rs. 1.6

**Answer: B**



**Watch Video Solution**

**69.** A reduction of 20 % in the price of sugar enables a housewife to purchase 6 kg more for ₹ 240. What is the original price per kg of sugar?

A. Rs. 10 per kg

B. Rs. 8 per kg

C. Rs. 6 per kg

D. Rs. 5 per kg

**Answer: A**



**Watch Video Solution**

**70.** A wholesaler sells toys at a profit of 20% to a retailer and retailer sells these toys to its customer at a profit of 25%. What is the profit percentage of the retailer?

A. 0.05

B. 0.8

C. 0.2

D. 0.25

**Answer: D**



**Watch Video Solution**

## Exercise Level 2

1. An automobile agency launched a scheme that if a customer purchases two Jabaaj

Discover bikes, one extra Jabaaj Discover will be free and if he purchases 3 Jabaaj Pulser he will get one extra Jabaaj Pulser free. If the cost price of 3 Jabaaj Discover and 4 Jabaaj Pulser be Rs. 67500 and Rs. 232500 respectively. If a customer purchases 2 bikes of Jabaaj Discover and 3 bikes of Jabaaj Pulser as per scheme he available 1 bike free of each category, then at what price these bikes should be sold so that the agency can get overall profit of 17.5% :

A. 235250

B. 352500

C. 368000

D. 268000`

**Answer: B**



**Watch Video Solution**

2. Rahul went to purchase a Nokia mobile handset, the shopkeeper told him to pay 20 % tax if he asked the bill. Rahul manages to get the discount of 5 % on the actual saleprice of the mobile and he paid the shopkeeper ₹ 3325

without tax. Besides he manages to avoid to pay 20 % tax on the already discounted price, what is the amount of discount that he has got?

A. 750

B. 375

C. 875

D. 525

**Answer: C**



**Watch Video Solution**

3. When a bicycle manufacture reduced its selling price by 50%, the number of bicycles sold radically increased by 600%. Initially the manufacturer was getting only 140% profit. What is the percentage increase of his profit?

A. 10 %

B. 14 %

C. 0 %

D. can't be determined

**Answer: C**



**Watch Video Solution**

4. A trader marks his good such that he can make 32% profit after giving 12% discount. However a customer available 20% discount instead of 12%. What is the new profit percentage of trader?

A. 20 %

B. 44 %

C. 30 %

D. 28.8 %

**Answer: A**



**Watch Video Solution**

5. . A retailer bought 3850 linc pens and 1848 cello pens at the same price. He sells linc pens in such a way that he can buy 650 linc pens with the selling price of 481 linc pens but he can only buy 408 cello pens with the selling

price of 629 cello pens. What is his overall profit percentage?

A. 4.8 %

B. 9.6 %

C. 13 %

D. none of these

**Answer: D**



**Watch Video Solution**

6. The ratio of selling price of 3 articles A, B, C is  $8 : 9 : 5$  and ratio of their profit % is  $8 : 7 : 14$ . If profit % of A is  $14.28\%$  and CP of B is Rs 400. Find overall%.

A. 0.1428

B. 0.1487

C. 0.1666

D. none of these

**Answer: D**



Watch Video Solution

7. Anna sold his car to Boney at a profit of 20% and Boney sold it to Chakori at a profit of 10%. Chakori sold it to mechanic at a loss of 9.09%. Mechanic spent 10% of his purchasing price and then sold it at a profit of 8.33% to Anna once again. What is the loss of Anna?

A. 23%

B. 29%

C. 50%

D. 40%

**Answer: A**



**Watch Video Solution**

8. In an office the number of employees reduces in the ratio of 3:2 and the wages increase in the ratio of 20:27. What is the profit percentage of employees over the previous wages?

A. 10 %

B. 9.09 %

C. 11.11 %

D. none of these

**Answer: A**



**Watch Video Solution**

9. I asked the shopkeeper the price of a wrist watch. I found that I had just the required sum of money. When the shopkeeper allowed me a discount of 25 % , I could bought another

watch worth ₹ 940 for my younger sister. What is the price which I have paid for my own watch.?

A. Rs. 2700

B. Rs.1800

C. Rs.2820

D. Rs.3760

**Answer: C**



**Watch Video Solution**

**10.** A and B are two parthners and they have invested Rs. 54,000 and Rs.90,000 in a business. After one year A received Rs. 1800 as his share of profit out Rs.3600 including his certain commission on total profit since he is a working parthner and rest profit is recevied by B. what is the commission of A as a percentage of the total profit?

A. 20%

B. 10%

C. 5%

D. 25%

**Answer: A**



**Watch Video Solution**

**11.** A trader sells goods to a customer at a profit of  $k\%$  over the cost price, besides it he cheats his customer by giving 880 g only instead of 1 kg. Thus, his overall profit percentage is  $25\%$ . Find the value of  $k$ ?

**A. 0.0833**

B. 0.0825

C. 0.1

D. 0.125

**Answer: C**



**Watch Video Solution**

**12.** A trader sells two brands of petrol, one is Extra Premium (EP) and other one is 'Speed' (SP). He mixes 12 litres of EP with 3 litres of speed and by selling this mixture at the price

of EP he gets the profit of 9.09 % . If the price of Extra Premium be ₹ 48 per litre, then the price of Speed (SP) is:

A. Rs. 38 per litre

B. Rs. 42 per litre

C. Rs. 28 per litre

D. none of these

**Answer: C**



**Watch Video Solution**

13. 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 ₹ 250 more than A :

A. Rs. 6000

B. Rs. 7250

C. Rs. 5000

D. none of these

**Answer: B**



**Watch Video Solution**

**14.** Ajay bought a motor cycle for ₹ 50,000. 2 years later he sold it to Bijoy at 10 % less of the cost price. Bijoy spent 5 % of the purchasing price on its maintenance. Later Bijoy displayed the sale price of his motorcycle ₹ 50,000. Chetan wanted to purchase it at 15 % discount but Bijoy gave him two successive discounts of 10 % and 5 % instead of 15 % in one time. What is the actual discount availed by Chetan?

A. 0.15

B. 15.5 %

C. 14.5 %

D. none of these

**Answer: C**



**Watch Video Solution**

**15.** Kamal bought a house in Sushant city, whose sale price was ₹ 8 lakh. He availed 20 % discount as an early bird offer and then 10 %

discount due to cash payment. After that he spent 10% of the cost price in interior decoration and lawn of the house. At what price should he sell the house to earn a profit of 25%

A. Rs. 9 lakh

B. Rs. 7.99 lakh

C. Rs. 7.92 lakh

D. none of these

**Answer: C**



16. I wanted to purchase 10 chairs for the class room whose cost was ₹ 200 each. The trader offered me a discount if I were to purchase a set of 12 chairs. So, I calculated that if I assume the normal price of 10 chairs, then we can purchase 2 extra chairs which cost me only ₹ 80 each of two chairs at the cost price of 12 chairs after discount. What is the percentage discount?

A. 0.06

B. 0.08

C. 0.12

D. 0.1

**Answer: D**



**Watch Video Solution**

17. The cost of servicing of a maruti car at Maruti care Pvt. Ltd. is ₹ 400 Manager of service centre told me that for the second service within a year a customer can avail a

10 % discount and further for third and fourth servicing he can avail 10 % discount of the previous amount paid, within a year. Further if a customer gets more than 4 services within a year he has to pay just 60 % of the servicing charges on these services. A customer availed 5 services from the same servicing station, what is the total percentage discount fetched by the customer?

A. 19.42 %

B. 18.5 %

C. 17.6 %

D. 26 %

**Answer: A**



**Watch Video Solution**

**18.** The cost price of an article is  $C$  and the selling price of the same article is  $S$ , where  $Z$  is the profit or loss percentage. If the cost price and selling price both are increased by same amount then which of the following is true :

A.  $Z$  increases

B. Z decreases

C. remains constant

D. none of these

**Answer: B**



**Watch Video Solution**

**19.** C.P. of 12 oranges is equal to S.P. of 9 oranges and discount of 10 oranges is equal to profit of 5 oranges . Find the difference between profit % and discount offered.

A. 20

B. 22.22

C. 16.66

D. 15

**Answer: B**



**Watch Video Solution**

**20.** A car mechanic purchased four old cars for ₹ 1 lakh. He spent total 2. lakh in the maintenance and repairing of these four cars.

What is the average sale price of the rest three cars to get 50 % total profit if he has already sold one of the four cars at ₹ 1.2 lakh?

A. 1.5lakh

B. 1.1lakh

C. 1.2lakh

D. 1.65lakh

**Answer: B**



**Watch Video Solution**

**21.** The cost of setting up a magazine is ₹ 2800. The cost of paper and ink etc is ₹ 80 per 100 copies and printing cost is ₹ 160 per 100 copies. In the last month 2000 copies were printed but only 1500 copies could be sold at ₹ 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. 1750

B. Rs. 2350

C. Rs. 1150

D. Rs. 1975

**Answer: D**



**Watch Video Solution**

22. DSNL charges a fixed rental of ₹ 350 per month. It allows 200 calls free per month. Each call is charged at ₹ 1.4 when the number of calls exceeds 200 per month and it charges ₹

When the number of calls exceeds 400 per month and so on. A customer made 150 calls in February and 250 calls in March. By how much per cent the each call is cheaper in March than each call in February?

A. 0.28

B. 0.25

C. 18.5 %

D. none of these

**Answer: A**



23. In the Bargain Bazar everyone purchases with a fair bargaining, so the traders markup the prices too much. A trader marked up an article at ₹  $M$  ejected huge profit if it is sold on the marked price. But a customer purchased it at  $M/2$  with his fine bargaining skills, so the expected profit of the trader diminished by  $66.66\%$ . What is the percentage discount fetched by the customer through bargaining?

A. 33.33 %

B. 50 %

C. 66.66 %

D. none of these

**Answer: B**



**Watch Video Solution**

**24.** Tika Chand has a weighing balance in which there is a technical fault. The right pan of his balance measures always 200 g more

than its left pan. Tika Chand as usual misutilise this balance in his business. While purchasing the articles he puts goods in the left pan and weight in the right pan while selling he reverse the order i.e., goods in the right pan and weight in the left pan. He uses only 2 kg weight for the measurement and to measure  $2n$  kg weight he measures  $n$  times by 2-2 kg but he sells goods at cost price. What is his profit percentage ?

A. 0.2

B.  $22\frac{2}{9}$

C.  $18\frac{2}{11}\%$

D. none of these

**Answer: B**



**Watch Video Solution**

**25.** Akram Miya has two types of grapes. One is the fresh grapes containing 80 % water and dry grapes containing 25 % water. He sells 20 kg dry grapes, by adding water to the dry grapes, at cost price. What is the total profit

percentage when after adding water the weight of 20 kg dry grapes increased in the proportion of water in fresh

A. 2.75

B. 2

C. 0.8

D. 1.25

**Answer: A**



**Watch Video Solution**

**26.** Pankaj and Sushil invested some amount of money in the ratio of 3: 5 for the same period in a business. They decided that at the end of year 20 % profit was to be given to AIDS Control Society of India as a donation. Out of the remaining, 75 % was to be reinvested and the rest of the profit was to be divided as interest on their capitals. If the difference in their shares is ₹ 1200. Find the total profit?

A. Rs. 18000

B. Rs. 24000

C. Rs. 20000

D. none of these

**Answer: B**



**Watch Video Solution**

**27.** Jagran group launched a new magazine in January 2004. The group printed 10000 copies initially for ₹ 50000. It distributed 20 % of its stock freely as specimen copy and 25 % of the rest magazines are sold at 25 % discount and

s rest at 16.66 % discount whose printing price was ₹ 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% profit

B. 27% loss

C. 16.66% profit

D. 38% profit

**Answer: A**



Watch Video Solution

28. Teenagers shoe company sells the shoes whose prices i.e., cost prices and selling prices are the multiples of either 13,14,15,16,17,18 or 19, starting from ₹ 399 to ₹ 699 (*i. e.* ,  $399 \leq CP / SP \leq 699$ ) What can be the maximum profit of the company?

A. Rs. 292

B. Rs. 398

C. Rs. 298

D. Rs. 300

**Answer: C**



**Watch Video Solution**

**29.** Jhun Jhunwala makes 1000 toys and incurs a cost of ₹ 1.2 for each toy. He marks-up the price in such a way that if he sells only 70 % of the manufactured toys he will realize 16.66 % overall profit. He sells only 750 articles at the marked price, since rest of the

toys are found to be defective, so can't be sold.

What is the net profit or loss of Jhun Jhunwala?

- A. 14.44% loss
- B. 25% profit
- C. 33.33% profit
- D. none of these

**Answer: B**



**Watch Video Solution**

**30.** Anupam sells a painting to Bhargava at  $\frac{4}{5}$ th the rate of profit at which Bhargava sells it to Chaudhary. Further Chaudhary sells it to Dara Singh at half the rate of profit at which Anupam sold it to Bhargava. If Chaudhary earns a profit of 10 % by selling it to Dara Singh for ₹ 2805. What is the cost price of painting for Bhargava?

A. 1896

B. 2040

C. 1680

D. 2000

**Answer: B**



**Watch Video Solution**

**31.** A dishonest retailer cheats his wholesaler and customer both. He purchases 19 % more from the wholesaler and sells 15 % less while selling to its customer. What is, profit percentage by selling the goods at cost price?

A. 36.78 %

B. 34 %

C. 40 %

D. 36.85 %

**Answer: C**



**Watch Video Solution**

**32.** Rotomac produces very fine quality of writing pens. Company knows that on an average 10% of the produced pens are always

defective so are rejected before packing.

Company promises to deliver 7200 pens to its wholesaler at Rs. 10 each. It estimates the overall profit on all the manufactured pens to be 25%. What is the manufacturing cost of each pen?

A. Rs. 6

B. Rs. 7.2

C. Rs. 5.6

D. Rs. 8

**Answer: B**



Watch Video Solution

**33.** Pratibha printers prepares diaries expecting to earn a profit of 40 % by selling on the marked price. But during transportation 8 % diaries were got spoiled due to at random rain and 32 % could be sold only at 75 % of the cost price. Thus, the remaining 60 % diaries could be sold at the expected price. What is the net profit or loss in the whole consignment?

A. 0.06

B. 0.1

C. 0.08

D. can't be determined

**Answer: C**



**Watch Video Solution**

**34.** Radhey Lal markup the prices of sweets by 40 % and he sold only 40 % of those at this price. He sells half of the rest at  $14\frac{2}{7}$  %

discount and rest at 25% discount. What is the net profit of Radhey Lal?

A. 26.5 %

B. 23.5 %

C. 30 %

D. 28.6 %

**Answer: B**



**Watch Video Solution**

**35.** The price of an article reduces to 576 after two successive discounts. The markup is 80% above the cost price of Rs. 500. What is the new profit percentage if instead of two successive discounts the markup price was further increased successively two times by the same percentage ?

A. 259.2 %

B. 59.2 %

C. 159.2 %

D. can't be determined

**Answer: C**



**Watch Video Solution**

**36.** A trader marks-up his goods by 80% and gives discount of 25%. Besides it he weighs 10% less amount while selling his goods. What is the net profit of trader?

A. 50%

B. 35%

C. 45%

D. 55%

**Answer: A**



**Watch Video Solution**

**37.** A dishonest trader marks up his goods by 80% and gives a discount of 25% Besides, he cheats 20% while purchasing and 10% while

selling. Find the overall profit percentage of shopkeeper.

A. 0.8

B. 0.6

C. 0.7

D. none of these

**Answer: A**



**Watch Video Solution**

**38.** A dishonest dealer purchases goods at 20 % discount of the cost price of Rs  $x$  and also cheats his wholesaler by getting 20 % extra through false weighing, per kg. Then, he marks up his goods by 80 % of  $x$ , but he gives a discount of 25 % besides he cheats his customer by weighing 10 % less than the required. What is his overall profit percentage?

A. 125 %

B. 100 %

C. 98.66 %

D. 120 %

**Answer: A**



**Watch Video Solution**

**39.** Anjali, Bhoomika and Chawla went to market to purchase the rings whose costs were same. But each ring was available with two successive discounts. Alkali availed two successive discounts of 5 % and 20 % .

Bhoomika availed two successive discounts 10 % and 15 % while Chawla availed two successive discounts of 12 % and 13 % . Who gets the maximum possible discount?

A. Anjuli

B. Bhoomika

C. Chawla

D. all of these

**Answer: A**



**Watch Video Solution**

**40.** An egg seller sells his eggs only in the packs of 3 eggs, 6 eggs, 9 eggs, 12 eggs etc., but the rate is not necessarily uniform. One day Raju (which is not the same egg seller) purchased at the rate of 3 eggs for a rupee and the next hour he purchased equal number of eggs at the rate of 6 eggs for a rupee. Next day he sold all the eggs at the rate of 9 eggs for ₹ 2. What is his percentage profit or loss?

A. 10% loss

B. 11.11% loss

C. 3% loss

D. 2.5% profit

**Answer: B**



**Watch Video Solution**

**41.** Virendra and Gurindra purchased one camera each at the same prices. Later on Amrendra purchased both cameras at equal prices from Virendra and Gurindra. But the

profit percentage of Virendra was  $P$  while the same of Gurindra was  $Q$ , since Gurindra calculated his profit on the selling price. Thus  $Q = 41\frac{2}{3}\%$  Amrendra sells one of the camera to Dholakiya at  $P\%$  profit, then what is the cost price for Dholakiya, while Amrendra purchased each of the camera at ₹ 240?

A. Rs. 676

B. Rs. 500

C. Rs. 576

D. none of these

**Answer: C**



**Watch Video Solution**

**42.** A merchant earns 25% profit in general. Once his 25% consignment was abducted forever by some goondas. Trying to compensate his loss he sold the rest amount by increasing his selling price by 20%. What is the new percentage profit or loss?

A. 10 % loss

B. 12.5% loss

C. 12.5% profit

D. 11.11% loss

**Answer: C**



**Watch Video Solution**

**43.** A milkman purchases 10 litres of milk at ₹ 7 per litre and forms a mixture by adding freely available water which constitutes 16.66 % of the mixture. Later on he replaced the mixture

by some freely available water and thus the ratio of milk is to water is 2:1. He then sold the new mixture at cost price of milk , then what is the profit percentage?

A. 0.68

B. 0.34

C. 0.4

D. none of these

**Answer: A**



**Watch Video Solution**

**44.** Profit on selling 10 candle 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. 5: 4

B. 3: 2

C. 4: 5

D. 3 : 4

**Answer: B**



**Watch Video Solution**

**45.** Cost price of two motorcycles is same. One is sold at a profit of 15% and the other for Rs. 4800 more than the first. If the net profit is 20%. Find the cost price of each motorcycle.

A. Rs. 48000

B. Rs. 52000

C. Rs. 36000

D. Rs. 42500

**Answer: A**



**Watch Video Solution**