MATHS

BOOKS - ICSE

PROFIT, LOSS AND DISCOUNT

Example

1. Articles bought at 10 for Rs 8 are sold at 8 for Rs 10 Find the gain percent. Also find the

number of articles bought and sold in order to gain Rs.144.

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2. Raju goes from Agra to Delhi to buy an article, which costs Rs 6,500 in Delhi. He sells this article in Agra for Rs 8,000. Find his gain or loss per cent. Consider that he spends Rs 700 on his transportation, food, etc.

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3. A man sold his bicycle for Rs 810, losing one-tenth of its cost price, Find :

the loss

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4. A man sold his bicycle for Rs 810, losing one-ninth of its selling price, Find :

the cost price of the bicycle

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5. A man sold his bicycle for Rs 810, losing one-ninth of its selling price, Find :

the loss as percent.

6. The selling price of a table is $\dfrac{27}{25}$ times its cost price. Find the loss or the profit as percent.

7. The cost price of an article is $\dfrac{5}{4}$ times its selling price. Find the loss or the profit as percent.

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8. Bhanu bought a fountain pen for Rs 12. For how much should she sell it to gain $15\,\%$?

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9. An article bought for Rs 450 is sold at a loss of 20%. Find its selling price.

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10. Ram sells an article for Solution Rs 360 at a gain of 20%. Find its cost price.

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11. By selling an article for Rs 382.50 a man loses 15%. Find its cost price.

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12. By selling an article for Rs 810, a man loses 10%. At what price should he sell it in order to gain 8% ?

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13. Peter sells two watches for Rs 198 each, gaining 20% on one and losing 20% on the other. Find his gain % or loss % on the whole.

14. A fruit-seller buys oranges at Rs 20 per dozen and sells them at a profit of 20%. Find the price paid by the customer for buying:

4 oranges

15. A fruit-seller buys oranges at Rs 20 per dozen and sells them at a profit of 20%. Find the price paid by the customer for buying:

3 dozen oranges

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16. A fruit- seller sells 8 banana for a rupee gaining 25%. How banana did he buy for a rupee .

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17. The cost price of 10 articles is equal to the selling price of 9 articles. Find the profit percent.

18. A man bought a piece of land for Rs 15,000. He sold $\dfrac{1}{3}$ of this land at a loss of 5 percent. At what gain percent should he sell the

remaining land in order to gain 8% on the whole ?

19. A shopkeeper sells an article at 15% gain. Had he sold it forRs 18 more, he would have gained 18%. Find the cost price of the article.

20. A tradesman marks his goods at 35 percent above the cost price and then allows purchasers a discount of 15 percent. What profit percent does he save ?

    A. 14.75 %

    B. 13.95 %

    C. 24.75 %

    D. 25 %

Answer: A

21. A dealer allows his customers a discount of 25% and still gains 25%. If an article costs Rs 1,440 to the dealer, find :

its marked price

22. A dealer allows his customers a discount of 25% and still gains 25%. If an article costs Rs

1,440 to the dealer, find :

its marked price.

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23. Find a single discount (as percent) equivalent to successive discounts of 10% and 20%.

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28. Mrs. Sharma purchased confectionery goods costing 165 on which the rate of tax is 6% and some tooth-paste, shaving-cream, soap, etc., costing Rs 230 on which the rate of Tax is 10%. If she gives a five-hundred rupee note to the shopkeeper, what money will he return to Mrs. Sharma?

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29. Smith buys an article marked at Rs 2,200. The rate of tax is 12%. He asks the shopkeeper

to reduce the price of the article to such an extent that he does not have to pay anything more than Rs 2.240 including tax. Calculate the reduction, as percent, needed in the marked price of the article.

30. The price of an article inclusive of 12% tax is Rs 2,016. Find its marked price.

31. In an intra-state transaction, goods Rs 20,000, are bought. If GST rate is 28%, find worth the amount of bill.

32. In an intra-state transaction, goods worth Rs 20,000 are bought at 40% discount. If GST rate is 28%, find the amount of bill.

33. In an inter-state transaction, goods worth Rs 15,000 are bought at 20% discount. If the rate of GST is 5%, find the amount of bill.

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34. Some financial related services are provided by a bank in Delhi. How much will Manoj, a resident of Delhi, pay for the services costing? Rs 8,000, Rs 6,500 and Rs 9,500, if the rate of GST is 18%?

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35. A dealer in Mumbai sells two different goods/services to Amar in the same city. One of these goods/services is marked at Rs 4,000 (available at 40% discount) and the other is marked at Rs 6,000 (available at 30% discount). If the rate of GST is 12%, find how much will Amar pay in all ?

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Exercise 8 A

1. Megha bought 10 note-books for 40 and sold them at Rs 4.75 per note-book. Find her gain percent.

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2. A fruit-seller buys oranges at 4 for Rs 3 and sells them at 3 for Rs 4. Find his profit percent.

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3. A man buys a certain number of articles at 15 for Rs 112.50 and sells them at 12 for Rs 108.

Find :

his gain as percent,

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4. A man buys a certain number of articles at 15 for Rs 112.50 and sells them at 12 for Rs 108.

Find :

the number of articles sold to make a profit of

Rs 75.

5. A boy buys an old bicycle for Rs 162 and spends Rs 18 on its repair before selling the bixycle for Rs 207. Find his gain or loss as percent.

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7. Mohit sold a T.V. for Rs 3,600, gaining one sixth of its selling price. Find :

the gain.

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8. Mohit sold a T.V. for Rs 3,600, gaining one sixth of its selling price. Find :

the cost price of the T.V.

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9. Mohit sold a T.V. for Rs 3,600, gaining one sixth of its selling price. Find :

the gain percent.

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10. By selling a certain number of goods for Rs 5,500, a shopkeeper loses equal to onetenth of their selling price. Find :

the loss incured

11. By selling a certain number of goods for Rs 5,500, a shopkeeper loses equal to onetenth of their selling price. Find :

the cost price of the goods

12. By selling a certain number of goods for Rs 5,500, a shopkeeper loses equal to onetenth of their selling price. Find :

the loss as percent.

13. The selling price of a sofa-set is $\dfrac{4}{5}$ times of its cost price. Find the gain or the loss as percent.

14. The cost price of an article is $\frac{4}{5}$ times of its selling price. Find the loss or the gain as percent

15. A shopkeeper sells his goods at 80% of their cost price. Find his percent gain or loses?

16. The cost price of an article is 90% of its selling price. What is the profit or the loss as percent?

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17. The cost price of an article is 30 percent less than its selling price. Find, the profit or the loss as percent.

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18. A shopkeeper bought 300 eggs at 80 paisa each. 30 eggs were broken in transit and then he sold the remaining eggs at one rupee each. Find, his gain or loss as percent.

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19. A man sold his bicycle for Rs 405 losing one-tenth of its cost price. Find :

its cost price,

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20. A man sold his bicycle for Rs 405 losing one-tenth of its cost price. Find :

the loss percent.

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21. A man sold a radio set for Rs 250 and gained one- ninth of its cost price Find:

its cost price

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22. A man sold a radio-set for Rs 250 and gained one-ninth of its cost price. Find : the profit percent.

Exercise 8 B

1. Find the selling price, if :

C.P. = Rs 950 and profit = 8%

2. Find the selling price, if :

C.P. = Rs 1,300 and loss = 13%

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3. Find the cost price, if :

S.P. = Rs 1,680 and profit = 12%

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4. Find the cost price, if :

S.P. = Rs 1,128 and loss = 6%

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5. By selling an article for Rs 900, a man gains 20%. Find his cost price and the gain.

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6. By selling an article for Rs 704, a person loses 12%. Find his cost price and the loss.

7. Find the selling price, if :

C.P. = Rs 352, overheads = 28 and profit

$= 20\,\%$.

8. Find the selling price, if :

C.P. = 576, overheads = Rs 44 and loss
$= 16\%$.

9. If John sells his bicycle for Rs 637, he will suffer a loss of 9%. For how much should it be sold, if he desires a profit of 5%?

10. A man sells a radio-set for Rs 605 and gains 10%. At what price should he sell another radio of the same kind, in order to gain 16% ?

11. By selling a sofa-set for Rs 2,500, the shopkeeper loses 20%. Find his loss percent or profit percent, if he sells the same sofa-set for Rs 3,150.

12. Mr. Sinha sold two tape-recorders for Rs 990 each, gaining 10% on one and losing 10% on the other. Find his total loss or gain, as percent, on the whole transaction.

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13. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a loss of 10%. Find :

C.P. of the tape-recorder.

14. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a loss of 10%. Find :

the C.P. of the C.D. player.

15. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a

loss of 10%. Find :

the total C.P. of both.

> ▶ Watch Video Solution

16. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a loss of 10%. Find :

the total S.P. of both.

> ▶ Watch Video Solution

17. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a loss of 10%. Find :

the gain % or the loss% on the whole.

18. Rajesh sold his scooter to Rahim at 8% loss and Rahim, in turn, sold the same scooter to Prem at 5% gain. If Prem paid Rs 14,490 for the

scooter, find :

the S.P. and the C.P. of the scooter for Rahim.

19. Rajesh sold his scooter to Rahim at 8% loss and Rahim, in turn, sold the same scooter to Prem at 5% gain. If Prem paid Rs 14,490 for the scooter, find :

the S.P. and the C.P. of the scooter for Rajesh.

20. John sold an article to Peter at 20% profit and Peter sold it to Mohan at 5% loss. If Mohan paid Rs 912 for the article, find how much did John pay for it ?

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Exercise 8 C

1. A stationer buys pens at 5 for Rs 28 and sells them at a profit of 25%. How much should a

customer pay, if he buys

only one pen?

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2. A stationer buys pens at 5 for Rs 28 and sells

them at a profit of 25%. How much should a

customer pay, if he buys

three pens?

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3. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

C.P. of 4 oranges.

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4. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

C.P. of one orange.

▶ **Watch Video Solution**

5. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

S.P. of one orange

▶ **Watch Video Solution**

6. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

profit made by selling one orange

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7. A fruit-seller sells 4 oranges for 3, gaining

50%. Find :

number of oranges need to be bought and

sold in order to gain Rs 24.

8. A man sells 12 articles for 80 gaining

$33\frac{1}{3}\%$. Find the number of articles bought

by the man for Rs 90.

9. The cost price of 20 articles is same as the selling price of 16 articles. Find the gain percent.

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10. The selling price of 15 articles is equal to the cost price of 12 articles. Find the gain or loss as percent

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11. By selling 8 pens, Shyam loses equal to the cost price of 2 pens. Find his loss percent.

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12. A shopkeeper bought rice worth Rs 4,500. He sold one-third of it at 10% profit. If he desires a profit of 12% on the whole, find :

the selling price of the rest of the rice.

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13. A shopkeeper bought rice worth Rs 4,500. He sold one-third of it at 10% profit. If he desires a profit of 12% on the whole, find :

the percentage profit on the rest of the rice.

14. Mohan bought a certain number of note-books forRs 600. He sold $\frac{1}{4}$ of them at 5 percent loss. At what price should he sell the

remaining notebooks so as to gain 10% on the whole ?

15. Raju sells a watch at 5% profit. Had he sold it forRs 24 more, he would have gained 11%. Find the cost price of the watch.

16. A man sold a bicycle at 5% profit. If the cost had been 30% less and the selling price Rs 63 less, he would have made a profit of 30%. What was the cost price of the bicycle ?

17. Renu sold an article at a loss of 8 percent. Had she bought it at 10% less and sold for Rs 36 more, she would have gained 20%. Find the cost price of the article.

Exercise 8 D

1. An article is marked for Rs 1,300 and is sold

forRs 1,144. Find the discount percent.

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2. The marked price of a dinning table is Rs

23,600 and is available at a discount of 8%.

Find its selling price.

3. A wrist-watch is available at a discount of 9%. If the list-price of the watch is Rs 1,400. Find the discount given and the selling price of the watch.

4. A shopkeeper sells an article forRs 248.50 after allowing a discount of 10%. Find the list

price of the article.

5. A shopkeeper buys an article for Rs 450. He

marks it at 20% above the cost price. Find :

the marked price of the article.

6. A shopkeeper buys an article for Rs 450. He

marks it at 20% above the cost price. Find :

the selling price, if he sells the article at 10 percent discount.

7. A shopkeeper buys an article for Rs 450. He marks it at 20% above the cost price. Find :

the percentage discount given by him, if he sells the article forRs 496.80.

8. The list price of an article is Rs 800 and is available at a discount of 15 percent. Find : (1) the selling price of the article, (ii) the cost price of the article, if a profit of $13\dfrac{1}{3}\%$ is made on selling it.

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9. An article is marked at Rs 2.250. By selling it at a discount of 12%, the dealer makes a profit

of 10%. Find :

the selling price of the article.

10. An article is marked at Rs 2.250. By selling it at a discount of 12%, the dealer makes a profit of 10%. Find :

the cost price of the article for the dealer.

11. By selling an article at 20% discount, a shopkeeper gains 25%. If the selling price of the article is Rs 1,440, find :

the marked price of the article.

12. By selling an article at 20% discount, a shopkeeper gains 25%. If the selling price of the article is Rs 1,440, find :

the cost price of the article.

13. A shopkeeper marks his goods at 30 percent above the cost price and then gives a discount of 10 percent. Find his gain percent.

14. A ready-made garments shop in Delhi allows 20 percent discount on its garments and still makes a profit of 20 percent. Find the

marked price of a dress which is bought by the shopkeeper for Rs 400.

15. At 12% discount, the selling price of a pen is Rs 13.20. Find its marked price. Also, find the new selling price of the pen, if it is sold at 5% discount.

16. The cost price of an article is Rs 2,400 and it is marked at 25% above the cost price. Find the profit and the profit percent, if the article is sold at 15% discount.

17. Thirty articles are bought at Rs 450 each. If one-third of these articles be sold at 6% loss, at what price must each of the remaining

articles be sold in order to make a profit of 10% on the whole ?

18. The cost price of an article is 25% below the marked price. If the article is available at 15% discount and its cost price is Rs 2,400, find :

its marked price

19. The cost price of an article is 25% below the marked price. If the article is available at 15% discount and its cost price is Rs 2,400, find :

its selling price

20. The cost price of an article is 25% below the marked price. If the article is available at 15% discount and its cost price is Rs 2,400,

find :

the profit percent.

21. Find a single discount (as percent) equivalent to following successive discounts:

20% and 12%

22. Find a single discount (as percent) equivalent to following successive discounts:

10% , 20% and 20%

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23. Find a single discount (as percent) equivalent to following successive discounts:

20% , 10% and 5%

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24. Find the single discount (as percent) equivalent to successive discounts of:

80% and 80%

25. Find the single discount (as percent) equivalent to successive discounts of:

60% and 60%

26. Find the single discount (as percent) equivalent to successive discounts of:

$60\,\%$ and $80\,\%$

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Exercise 8 E

1. Rajat purchases a wrist-watch costing Rs 540. The rate of tax is 8%. Find the total amount paid by Rajat for the watch.

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2. Ramesh paid 345.60 as tax on a purchase of Rs 3,840. Find the rate of tax.

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3. The price of a washing machine, inclusive of Tax, is Rs 13,530/-. If the tax is 10%, find its basic (cost) price.

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4. Sarita purchases biscuits costing Rs 158 on which the rate of tax is 6%. She also purchases some cosmetic goods costing Rs 354 on which the rate of tax is 9%. Find the total amount to be paid by Sarita.

5. The price of a T.V. set inclusive of tax of 9% is Rs 13,407. Find its marked price. If tax is increased to 13%, how much more does the customer has to pay for the T.V. set ?

6. The price of an article is Rs 8,250 which includes tax at 10%. Find how much more or less does a customer pay for the article, if the tax on the article:

increases to 15%

7. The price of an article is Rs 8,250 which includes tax at 10%. Find how much more or less does a customer pay for the article, if the tax on the article:

decreases to 6%

8. The price of an article is Rs 8,250 which includes tax at 10%. Find how much more or less does a customer pay for the article, if the

tax on the article:

increases by 2%

9. The price of an article is Rs 8,250 which includes tax at 10%. Find how much more or less does a customer pay for the article, if the tax on the article:

decreases by 3%.

10. A bicycle is available for Rs 32,864 including tax. If the list price of the bicycle is Rs 31,600, find :

the rate of Tax.

11. A bicycle is available for Rs 32,864 including tax. If the list price of the bicycle is Rs 31,600, find :

the price a customer will pay for the bicycle if the tax is increased by 6%.

12. When the rate of Tax is decreased from 9% to 6% for a coloured T.V., Mrs Geeta will save Rs 780 in buying this T.V. Find the list price of the T.V.

13. A shopkeeper sells an article for Rs 21,384 including 10% tax. However, the actual rate of

Tax is 8%. Find the extra profit made by the dealer.

Exercise 8 F

1. Some goods/services cost Rs 16,000 and rate of GST on them is 12%. Find the amount of bill, in case of:

intra-state transaction.

2. Some goods/services cost Rs 16,000 and rate of GST on them is 12%. Find the amount of bill, in case of:

intra-state transaction.

3. John belongs to Delhi. He buys goods, worth Rs 25,000 from a shop in Delhi. If the rate of GST is 5%, find how much money in all, will John pay for these goods ?

4. Find the amount of bill for the following inter state transaction of goods/services: Cost of transaction= Rs 30,000, discount = 30% and GST = 28%.

5. For both the following inter-state transaction of services, find the total amount

of bill.

Cost of services = Rs 5,000, discount -20% and

GST = 12%

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6. For both the following inter-state transaction of services, find the total amount of bill.

Cost of services = Rs 12,500, discount=40% and

GST = 18%

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7. A shopkeeper in Indore, sells 20 identical articles for Rs 450 each. Find the amount of bill if he gives 20% discount and then charges GST = 28%

8. A dealer in Bihar supplied goods to a dealer in Mumbai. The dealer in Mumbai buys :

40 articles for Rs 800 each at 30% discount.

If the rate of GST on the whole is 12%, find how

much will the dealer at Mumbai pay to dealer in Bihar.

9. A dealer in Bihar supplied goods to a dealer in Mumbai. The dealer in Mumbai buys :

75 articles for Rs 1,000 each at 20% disocunt.

If the rate of GST on the whole is 12%, find how much will the dealer at Mumbai pay to dealer in Bihar.

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2. Raju goes from Agra to Delhi to buy an article, which costs Rs 6,500 in Delhi. He sells

this article in Agra forRa 8,000. Find his gain or loss per cent. Consider that he spends Ra 700 on his transportation, food, etc.

3. A man sold his bicycle for Rs 810, losing one-ninth of its selling price, Find :

the loss as percent.

4. A man sold his bicycle for Rs 810, losing one-ninth of its selling price, Find :

the cost price of the bicycle

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3 dozen oranges

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its selling price

▶

22. A dealer allows his customers a discount of 25% and still gains 25%. If an article costs Rs 1,440 to the dealer, find :

its marked price.

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3. A man buys a certain number of articles at 15 for Rs 112.50 and sells them at 12 for Rs 108. Find :

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8. Mohit sold a T.V. for Rs 3,600, gaining one sixth of its selling price. Find :

the cost price of the T.V.

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9. Mohit sold a T.V. for Rs 3,600, gaining one sixth of its selling price. Find :

the gain percent.

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10. By selling a certain number of goods for Rs 5,500, a shopkeeper loses equal to onetenth of their selling price. Find :

the loss incured

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11. By selling a certain number of goods for Rs 5,500, a shopkeeper loses equal to onetenth of their selling price. Find :

the cost price of the goods

12. By selling a certain number of goods for Rs 5,500, a shopkeeper loses equal to onetenth of their selling price. Find :

the loss as percent.

13. The selling price of a sofa-set is $\dfrac{4}{5}$ times of its cost price. Find the gain or the loss as percent.

14. The cost price of an article is $\dfrac{4}{5}$ times of its selling price. Find the loss or the gain as percent

15. A shopkeeper sells his goods at 80% of their cost price. Find his percent gain or loses?

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16. The cost price of an article is 90% of its selling price. What is the profit or the loss as percent?

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17. The cost price of an article is 30 percent less than its selling price. Find, the profit or the loss as percent.

18. A shopkeeper bought 300 eggs at 80 paisa each. 30 eggs were broken in transit and then he sold the remaining eggs at one rupee each. Find, his gain or loss as percent.

19. A man sold his bicycle for Rs 405 losing one-tenth of its cost price. Find :

its cost price,

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20. A man sold his bicycle for Rs 405 losing one-tenth of its cost price. Find :

the loss percent.

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21. A man sold a radio set for Rs 250 and gained one- ninth of its cost price Find:

its cost price

22. A man sold a radio-set for Rs 250 and gained one-ninth of its cost price. Find :

the profit percent.

1. Find the selling price, if :

C.P. = Rs 950 and profit = 8%

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2. Find the selling price, if :

C.P. = Rs 1,300 and loss = 13%

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3. Find the cost price, if :

S.P. = Rs 1,680 and profit = 12%

4. Find the cost price, if :

S.P. = Rs 1,128 and loss = 6%

5. By selling an article for Rs 900, a man gains 20%. Find his cost price and the gain.

6. By selling an article for Rs 704, a person loses 12%. Find his cost price and the loss.

7. Find the selling price if:

C.P= Rs 350 overheads = Rs 28 and profit =20%

8. Find the selling price, if :

C.P. = 576, overheads = Rs 44 and loss

$= 16\,\%$.

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9. If John sells his bicycle for Rs 637, he will

suffer a loss of 9%. For how much should it be

sold, if he desires a profit of 5%?

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10. A man sells a radio-set for Rs 605 and gains 10%. At what price should he sell another radio of the same kind, in order to gain 16% ?

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11. By selling a sofa-set for Rs 2,500, the shopkeeper loses 20%. Find his loss percent or profit percent, if he sells the same sofa-set for Rs 3,150.

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12. Mr. Sinha sold two tape-recorders for Rs 990 each, gaining 10% on one and losing 10% on the other. Find his total loss or gain, as percent, on the whole transaction.

13. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a loss of 10%. Find :

C.P. of the tape-recorder.

14. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a loss of 10%. Find :

the C.P. of the C.D. player.

15. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a

loss of 10%. Find :

the total C.P. of both.

16. A tape-recorder is sold for 2,760 at a gain of

15% and a C.D. player is sold for Rs 3,240 at a

loss of 10%. Find :

the total S.P. of both.

17. A tape-recorder is sold for 2,760 at a gain of 15% and a C.D. player is sold for Rs 3,240 at a loss of 10%. Find :

the gain % or the loss% on the whole.

18. Rajesh sold his scooter to Rahim at 8% loss and Rahim, in turn, sold the same scooter to Prem at 5% gain. If Prem paid Rs 14,490 for the

scooter, find :

the S.P. and the C.P. of the scooter for Rahim.

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19. Rajesh sold his scooter to Rahim at 8% loss and Rahim, in turn, sold the same scooter to Prem at 5% gain. If Prem paid Rs 14,490 for the scooter, find :

the S.P. and the C.P. of the scooter for Rajesh.

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20. John sold an article to Peter at 20% profit and Peter sold it to Mohan at 5% loss. If Mohan paid Rs 912 for the article, find how much did John pay for it ?

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Exercise 8 C

1. A stationer buys pens at 5 for Rs 28 and sells them at a profit of 25%. How much should a

customer pay, if he buys

only one pen?

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2. A stationer buys pens at 5 for Rs 28 and sells them at a profit of 25%. How much should a customer pay, if he buys three pens?

> ▶ **Watch Video Solution**

3. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

C.P. of one orange.

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4. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

C.P. of one orange.

▶ **Watch Video Solution**

5. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

S.P. of one orange

▶ **Watch Video Solution**

6. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

profit made by selling one orange

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7. A fruit-seller sells 4 oranges for 3, gaining 50%. Find :

number of oranges need to be bought and sold in order to gain Rs 24.

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8. A man sells 12 articles for 80 gaining $33\dfrac{1}{3}\%$. Find the number of articles bought by the man for Rs 90.

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9. The cost price of 20 articles is same as the selling price of 16 articles. Find the gain percent.

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10. The selling price of 15 articles is equal to the cost price of 12 articles. Find the gain or loss as percent

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11. By selling 8 pens, Shyam loses equal to the cost price of 2 pens. Find his loss percent.

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12. A shopkeeper bought rice worth Rs 4,500. He sold one-third of it at 10% profit. If he desires a profit of 12% on the whole, find :

the selling price of the rest of the rice.

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13. A shopkeeper bought rice worth Rs 4,500. He sold one-third of it at 10% profit. If he desires a profit of 12% on the whole, find :

the percentage profit on the rest of the rice.

14. Mohan bought a certain number of note-books forRs 600. He sold $\frac{1}{4}$ of them at 5 percent loss. At what price should he sell the

remaining notebooks so as to gain 10% on the whole ?

15. Raju sells a watch at 5% profit. Had he sold it forRs 24 more, he would have gained 11%. Find the cost price of the watch.

16. A man sold a bicycle at 5% profit. If the cost had been 30% less and the selling price Rs 63 less, he would have made a profit of 30%. What was the cost price of the bicycle ?

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17. Renu sold an article at a loss of 8 percent. Had she bought it at 10% less and sold for Rs 36 more, she would have gained 20%. Find the cost price of the article.

Exercise 8 D

1. An article is marked for Rs 1,300 and is sold forRs 1,144. Find the discount percent.

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2. The marked price of a dinning table is Rs 23,600 and is available at a discount of 8%. Find its selling price.

3. A wrist-watch is available at a discount of 9%. If the list-price of the watch is Rs 1,400. Find the discount given and the selling price of the watch.

4. A shopkeeper sells an article forRs 248.50 after allowing a discount of 10%. Find the list

price of the article.

5. A shopkeeper buys an article for Rs 450. He marks it at 20% above the cost price. Find :

the marked price of the article.

6. A shopkeeper buys an article for Rs 450. He marks it at 20% above the cost price. Find :

the selling price, if he sells the article at 10 percent discount.

7. A shopkeeper buys an article for Rs 450. He marks it at 20% above the cost price. Find :

the percentage discount given by him, if he sells the article forRs 496.80.

8. The list price of an article is Rs 800 and is available at a discount of 15 percent. Find:

the selling price of the article

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9. The list price of an article is Rs 800 and is available at a discount of 15 percent. Find : (1) the selling price of the article, (ii) the cost price of the article, if a profit of $13\dfrac{1}{3}\%$ is made on selling it.

10. An article is marked at Rs 2.250. By selling it at a discount of 12%, the dealer makes a profit of 10%. Find :

the selling price of the article.

11. An article is marked at Rs 2.250. By selling it at a discount of 12%, the dealer makes a profit

of 10%. Find :

the cost price of the article for the dealer.

12. By selling an article at 20% discount, a shopkeeper gains 25%. If the selling price of the article is Rs 1,440, find :

the marked price of the article.

13. By selling an article at 20% discount, a shopkeeper gains 25%. If the selling price of the article is Rs 1,440, find :

the cost price of the article.

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14. A shopkeeper marks his goods at 30 percent above the cost price and then gives a discount of 10 percent. Find his gain percent.

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15. A ready-made garments shop in Delhi allows 20 percent discount on its garments and still makes a profit of 20 percent. Find the marked price of a dress which is bought by the shopkeeper for Rs 400.

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16. At 12% discount, the selling price of a pen is Rs 13.20. Find its marked price. Also, find the

new selling price of the pen, if it is sold at 5% discount.

17. The cost price of an article is Rs 2,400 and it is marked at 25% above the cost price. Find the profit and the profit percent, if the article is sold at 15% discount.

18. Thirty articles are bought at Rs 450 each. If one-third of these articles be sold at 6% loss, at what price must each of the remaining articles be sold in order to make a profit of 10% on the whole ?

19. The cost price of an article is 25% below the marked price. If the article is available at 15% discount and its cost price is Rs 2,400,

find :

its marked price

20. The cost price of an article is 25% below the marked price. If the article is available at 15% discount and its cost price is Rs 2,400, find :

its selling price

21. The cost price of an article is 25% below the marked price. If the article is available at 15% discount and its cost price is Rs 2,400, find :

its selling price

22. Find a single discount (as percent) equivalent to following successive discounts:

20% and 12%

23. Find a single discount (as percent) equivalent to following successive discounts:

10% , 20% and 20%

24. Find a single discount (as percent) equivalent to following successive discounts:

20% , 10% and 5%

25. Find the single discount (as percent) equivalent to successive discounts of:

80% and 80%

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26. Find the single discount (as percent) equivalent to successive discounts of:

60% and 60%

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27. Find the single discount (as percent) equivalent to successive discounts of:

60% and 80%

Exercise 8 E

1. Rajat purchases a wrist-watch costing Rs 540. The rate of tax is 8%. Find the total amount paid by Rajat for the watch.

2. Ramesh paid 345.60 as tax on a purchase of

Rs 3,840. Find the rate of tax.

3. The price of a washing machine, inclusive of

Tax, is Rs 13,530/-. If the tax is 10%, find its

basic (cost) price.

4. Sarita purchases biscuits costing Rs 158 on which the rate of tax is 6%. She also purchases some cosmetic goods costing Rs 354 on which the rate of tax is 9%. Find the total amount to be paid by Sarita.

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5. The price of a T.V. set inclusive of tax of 9% is Rs 13,407. Find its marked price. If tax is

increased to 13%, how much more does the customer has to pay for the T.V. set ?

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6. The price of an article is Rs 8,250 which includes tax at 10%. Find how much more or less does a customer pay for the article, if the tax on the article:

increases to 15%

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7. The price of an article is Rs 8,250 which includes tax at 10%. Find how much more or less does a customer pay for the article, if the tax on the article:

decreases to 6%

8. The price of an article is Rs 8,250 which includes tax at 10%. Find how much more or less does a customer pay for the article, if the

tax on the article:

increases by 2%

9. The price of an article is Rs 8,250 which includes tax at 10%. Find how much more or less does a customer pay for the article, if the tax on the article:

decreases by 3%.

10. A bicycle is availabel for Rs 1664 including tax If the list price of the bicycle is Rs 1660. Find

the rate of tax

11. A bicycle is availabel for Rs 1664 including tax If the list price of the bicycle is Rs 1600. Find

the price a customer will pay for the bicycle if

the tax Is increased by 6%

12. When the rate of Tax is decreased from 9% to 6% for a coloured T.V., Mrs Geeta will save Rs 780 in buying this T.V. Find the list price of the T.V.

13. A shopkeeper sells an article for Rs 21,384 including 10% tax. However, the actual rate of

Tax is 8%. Find the extra profit made by the dealer.

1. Some goods/services cost Rs 16,000 and rate of GST on them is 12%. Find the amount of bill, in case of:

intra-state transaction.

2. Some goods/services cost Rs 16,000 and rate of GST on them is 12%. Find the amount of bill, in case of:

intra-state transaction.

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3. John belongs to Delhi. He buys goods, worth Rs 25,000 from a shop in Delhi. If the rate of GST is 5%, find how much money in all, will John pay for these goods ?

4. Find the amount of bill for the following inter state transaction of goods/services: Cost of transaction= Rs 30,000, discount = 30% and GST = 28%.

5. For both the following inter-state transaction of services, find the total amount

of bill.

Cost of services = Rs 5,000, discount -20% and

GST = 12%

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6. For both the following inter-state transaction of services, find the total amount of bill.

Cost of services= Rs 12500, discount =40% and GST=18%.

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7. A shopkeeper in Indore, sells 20 identical articles for Rs 450 each. Find the amount of bill if he gives 20 % discount and then charges GST = 28 %

8. A dealer in Bihar supplied goods to a dealer in Mumbai. The dealer in Mumbai buys :

(i) 40 articles for 800 each at 30% discount (ii) 75 articles for 1,000 each at 20% disocunt.

If the rate of GST on the whole is 12%, find how much will the dealer at Mumbai pay to dealer in Bihar.

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9. A dealer in Bihar supplied goods to a dealer in Mumbai. The dealer in Mumbai buys :

75 articles for Rs 1,000 each at 20% disocunt.

If the rate of GST on the whole is 12%, find how much will the dealer at Mumbai pay to dealer in Bihar.