MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

PROFIT AND LOSS

Example

1. Mohit bought a CD for Rs. 750 and sold it for Rs. 875. Find his gain percent.

2. Rahul purchased a table for Rs. 1260 and due to some scratched on its top he had to sell it for Rs. 1197. Find his loss percent.

A. 25 %

B. 20 %

C. 15 %

D. 5 %

Answer: D

3. Mohan Lal purchased an old scooter for Rs. 12000 and spent Rs. 2850 on its overhauling. Then, he sold it to his friend Sohanbir for Rs. 13860. How much per cent did he gain or lose?

A. 5.3 %

B. 8.3 %

C. 7.2 %

D. 6.6 %

Answer: D

4. Raghu bought an almrah for Rs. 6250 and spent Rs.375 on its repairs. Then, he sold it for Rs. 6890. Find his gain or loss per cent.

A. 4%

B. 5%

C. 6%

D. 7%

Answer: A

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5. A vendor bought oranges at 20 for Rs.125 and sold them at Rs.90 per dozen. Find his gain or loss percent.

A. 30%

B. 20%

C. 10%

D. 5%

Answer: B

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6. If the selling price of 8 greeting cards is equal to the cost price of 10 greeting cards gain or loss percent

A. 15 %

B. 25 %

C. 20 %

D. 30 %

Answer: B

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7. By selling 33m of cloth, a draper loses an

amount equal to the selling price of 3m of

cloth. Find his gain or loss percent.

8. Rohit buys a geyser for Rs.3680 and sells it at a gain of $7\dfrac{1}{2}\%$. For how much does he sell it?

9. Rashmi buys a calculator for Rs.1080 and sells it at a loss of $6\dfrac{2}{3}\%$. For how much does she sell it?

A. Rs.1108

B. Rs.1008

C. Rs.1100

D. Rs.1000

Answer: B

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10. On selling a fan for rs.810, Sunil gains 8% .

For how much did he purchase it?

A. Rs.450

B. Rs.550

C. Rs.650

D. Rs.750

Answer: D

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11. On selling a table for Rs. 1974, Ramesh loses

6% . For how much did he puchase it?

A. Rs 1200

B. Rs 2500

C. Rs 1300

D. Rs 2100

Answer: D

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12. On selling a bat for Rs. 742, a man gains

6%. For how much should he sell it to gain 8 %

13. By selling a T-shirt for Rs. 648, a shopkeeper loses 4%. For how much should he sell it to gain 4%

14. Harish sold a bicycle at 8% gain. Had it been sold for Rs.375 more, the gain would have been 14%. Find the cost price of the bicycle.

15. Manish sold a watch at 5% loss. Had he sold it for Rs.312 more, he would have gained 8%.Find the selling price of the watch.

16. Gurpreet sells two watches for Rs.2970 each, gaining 10% on one and losing 10% on

the other. Find her gain or loss percent in the whole transaction.

17. Manohar purchased two handbags for Rs.1500 each. He sold these bags, gaining 8% on one and losing 4% on the other. Find his gain or loss percent in the whole transaction.

18. A reduction of 20% in the price of sugar enables Mrs Shah to buy an extra 3 kg of it for Rs. 360. Find (i) the original rate, and (ii) the reduced rate per kg.

19. The marked price of a ceiling fan is Rs1250 and the shopkeeper allows a discount of 6% on it. Find the selling price of the fan.

A. Rs 1150

B. Rs 1235

C. Rs 1175

D. Rs 1290

Answer: C

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20. A trader marks his goods at 40% above the cost price and allows a discount of 25%. What is his gain percent?

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21. A dealer purchased a washing machine for Rs.7660. He allows a discount of 12% on its marked price and still gains 10%. Find the marked price of the machine.

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22. How much percent above the cost price should a shopkeeper mark his goods so that

after allowing a discount of 25% on the marked price, he gains 20%?

23. Find the single discount equilavalent to two successive discounts of 20% and 10%.

24. The cost of the TV set at a showroom was Rs. 36500. The sales tax charged was 8%. Find

the bill amount.

25. Raman bought an air cooler for Rs. 5400 including VAT at 8%. Find the original price of the air cooler.

A. Rs. 4000

B. Rs. 5000

C. Rs. 6000

D. Rs. 7000

Answer: B

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26. A colour TV is available for RS. 26880 inclusive of VAT. If the original cost of the TV is Rs. 24000. Find the rate of VAT.

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Exercise 10 A

1. Find the gain or loss per cent when : (i) CP=Rs. 620 and SP = Rs. 713 (ii) CP=Rs.675 and SP = Rs. 630 (iii) CP=Rs.345 and SP = Rs.372.60 : (iv) CP= Rs.80 and SP = 76.80

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2. Find the selling price when :

(i) CP = Rs. 1650 and gain = 4%

(ii) CP = Rs. 915 and gain = $6\dfrac{2}{3}\%$

(iii) CP = Rs.875 and loss = 12%

(iv) CP = Rs.645 and loss = `13 1/3%

3. Find the cost price when :

(i) SP=Rs. 1596 and gain = 12%

(ii) SP=Rs. 2431 and loss = $6\dfrac{1}{2}$ %

(iii) SP=Rs.657.60 and loss=4%

(iv) SP=Rs.34.40 and loss=$7\dfrac{1}{2}$ %

4. Manjit bought an iron safe for Rs. 12160 and paid Rs. 340 for its transportation. Then, he

sold it for Rs.12875.Find his gain per cent.

5. Robin purchased an old car for Rs.73500. He spent Rs.10300 on repairs and paid Rs. 2600 for its insurance. Then he sold it to a mechanic for Rs.84240. What was his percentage gain or loss?

6. Hari bought 20kg of rice at Rs 36 per kg and 25 kg of rice at Rs. 32 per kg. He mixed the two varieties and sold the mixture at Rs. 38 per kg. Find his gain per cent in the whole transaction.

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7. Coffe costing Rs. 250 per kg was mixed with chicory costing Rs. 75 per kg in the ratio 5:2 for certain blend. If the mixture with was sold

at Rs. 230 per kg, find the gain or loss per cent

.

8. If the selling price of 16 water bottles is equal to the cost price of 17 water bottles. Find gain per cent percent earned by the dealer.

9. The cost price of 12 candles is equal to the selling price of 15 candles.Find the loss per cent

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10. By selling 130 cassetes, a man gains an amount equal to the selling price of 5 casesttes.Find the gain percent.

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11. By selling 45 lemons, a vendor loses a sum equal to the selling price of 3 lemons. Find his loss percent.

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12. Oranges are bought at 6 for Rs. 20 and sold at 4 for Rs. 18. Find the gain or loss per cent.

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13. A vendor purchased bananas at Rs. 40 per dozen and sold them at 10 for Rs.36. Find his gain or loss per cent.

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14. A man bought apples at 10 for Rs. 75 and sold them at Rs.75 per dozen. Find his loss percent.

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15. A man purchsed some eggs at 3 for Rs. 16 and sold them at 5 for Rs.36 . Thus, he gained Rs. 168 in all. How many eggs did he purchase ?

16. A dealer sold camera for Rs. 1080 gaining $\frac{1}{8}$ of its cost price. Find (i) the cost price of camera. And (ii) the gain percent earned by the dealer.

17. Meenakshi sells a pen for Rs.54 and loses $\frac{1}{10}$ of her outlay. Find (i) the cost of the pen and (ii) the loss percent.

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18. A dealer gets Rs. 940 more if instead of selling a table at a loss of 10%, it is sold at a gain of 10% . Find the cost price of the table.

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19. A dealer gets $Rs.56$ less if instead of selling

a chair at a gain of 15%, its it is sold at a gain

of 8%.

Find the cost price of the chair.

A. $Rs.500$

B. $Rs.600$

C. $Rs.700$

D. $Rs.800$

Answer: D

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20. A cycle was sold at a gain of 10%. Had it been sold for Rs. 260 more, the gain would have been 14% . Find the cost price of cycle.

21. Sonu buys 40kg of wheat at Rs. 12.50 per kg and 30kg of wheat at Rs. 14 per kg. At what rate per kg should he sell the mixture to gain 5% on the whole?

▶

22. Wasim bought two cricket bats for Rs. 840 and Rs. 360 respevtively. He sells the first bat at a gain of 15% and the second one at a loss of 5%. Find his gain or loss per cent in the whole transaction.

23. Hema bought two pairs of jeans for Rs. 1450 each. She sold one of them at a gain of

8% and the other at a loss of 4%.Find her gain or loss per cent in the whole transaction.

24. A grocer purchased $200kg$ of rice at25 per kg.He sold 80kg of it at a gain of 10% and 40 kg at a loss of 4% At what rate per kg should he sell the remainder to gain 8% on his total investment

25. If the selling price of a TV set is equal to $\dfrac{6}{5}$ of its cost price, find the gain per cent.

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26. If the selling price of a flower vase is $\dfrac{5}{6}$ of its cost price, find the loss per cent.

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27. By selling a bouquet for Rs.322 a florist gains 15%. At what price should he sell it to gain 25%?

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28. By selling an umbrella for Rs. 336, a shopkeeper loses 4%. At what price must he sell it to gain 4%?

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29. A radio is sold for Rs. 3120 at a loss of 4%. What will be the gain or loss percent if it is sold for Rs. 3445?

30. Luxmi sold two sarees for Rs.1980 each. On one, she lost 10%. While on the other she gained 10%. Find gain or loss percent in the whole transaction.

31. A shopkeeper sold two fans for Rs. 1140 each. One he gains 14%, while on the other he loses 5%. Calcuate his gain or loss percent in the whole transaction.

32. Vinod sold a watch to Arun at a gain of 12% and Arun had to sell it to Manoj at a loss of 5%. If Manoj paid Rs. 3990 for it, how much did Vinod pay for the watch?

33. Ahmed buys a plot of land for Rs. 480000. He sells $\dfrac{2}{5}$ of it at a loss of 6%.At what gain per cent should he sell the remaining part of the plot to gain 10% on the whole?

34. A grocer bought sugar worth of Rs. 4500. He sold one-third of it at a gain of 10%. At

what gain per cent must the remaining sugar be sold to have a gain of 12% on the whole?

Exercise 10 B

1. The marked price of a water cooler is Rs. 4650. The shopkeeper offers an off-season discount of 18% on it. Find its selling price.

2. The price of a sweater was slashed from Rs. 960 to Rs. 816 by a shopkeeper in the winter season. Find the rate of discount given by him.

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3. Find the rate of discount being given on a shirt whose selling price is Rs. 1092 after deducting a discount of Rs. 208 on its marked price.

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4. After allowing a discount of 8% on a toy, it is sold for Rs. 216.20. Find the marked price of toy.

A. Rs 230

B. Rs 330

C. Rs 235

D. Rs 250

Answer: C

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5. A tea set was bought for Rs. 528 after getting a discount of 12% on its marked price. Find the marked price of the tea set.

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6. A dealer marks his goods at 35% above the cost price and a discount of 20% was given on its marked price. Find the gain or loss per cent.

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7. A cellphone was marked at 40% above the cost price and a discount of 30% was given on its marked price. Find the gain or loss percent made by the shopkeeper.

8. A dealer purchsed a fan for Rs. 1080. After allowing a discount of 25% on its marked price.he gains 25%. Find the marked price of the fan.

9. A dealer bought a refrigerator for Rs. 11515. After allowing a discount of 16% on its marked price, he gains 20%. Find the marked price of the refrigerator.

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10. A jeweller allows a discount of 16% to his customers and still gains 20%. Find the

marked price of a ring which costs the jeweller Rs. 1190.

11. After allowing a discount of 10% on the marked price, a trader still makes a gain of 17%. By what per cent is the marked price above the cost price?

12. How much per cent above the cost price should a shopkeeper mark his goods so that after allowing a discount of 10% on the marked price, he gains 8%?

13. The marked price of a TV is Rs.18500. A dealer allows two successive discounts of 20% and 5%. For how much is the TV available?

14. Find the single discount which is equivalent to two successive discounts of 20% and 5%.

Exercise 10 C

1. The list price of a refigerator is Rs. 14650. If 6% is charged as sales tax, find the cost of the refrigerator.

2. Reena bought the following articles from a general store:

(i) 1 tie costing Rs.250 with ST@ 6%

(ii) Medicines costing Rs.625 with ST @4%

(iii) Cosmetics costing Rs.430 with ST @ 10%.

(iv) Clothes costing Rs. 1175 with ST@8%

Calculate the total amount to be paid by Reena .

3. Tanvy bought a watch for Rs. 1980 including VAT at 10%. Find the original price of the watch.

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4. Mohit bought a shirt for Rs. 1337.50 including VAT at 7% . Find the original price of the shirt.

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5. Karuna bought 10 g of gold for Rs. 15756 including VAT at 1%.What is the rate of gold per 10g?

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6. Mohini purchased a computer for Rs. 37960 including VAT at 4%. What is the original price of the computer?

> ▶ **Watch Video Solution**

7. Sajal purchased some car parts for Rs.20776 including VAT at 12%. What is the original cost of these spare parts?

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8. The sale price of a TV set including VAT is Rs.27000. If VAT is charged at 8% of the list price, what is the list price of the TV set?

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9. Rohit purchased a pair of shoes for Rs. 882 inclusive of VAT. If the original cost be Rs.840 find rate of VAT.

▶ **Watch Video Solution**

10. Malti bought a VCR for Rs.19980 including VAT. If the original price of VCR be Rs.18500, find the rate of VAT.

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11. The value of a car including VAT is Rs.382500. If the basic price of the be Rs.340000, find the rate of VAT on cars.

Exercise 10 D Tick The Correct Answer In Each Of The Following

1. Rajan buys a toy for Rs.75 and sells it for Rs.100. His gain per cent is

A. 0.25

B. 0.2

C. $33\dfrac{1}{3}\%$

D. $37\dfrac{1}{2}\%$

Answer: C

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2. A bat is bought for $Rs120$ and sold for $Rs105$. The loss per cent is.

A. 0.15

B. 12.5 %

C. 16.66 %

D. 14.2

Answer: B

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3. A bookseller sells a book for Rs.100, gaining Rs. 20. His gain per cent is

A. 2

B. 25

C. 0.22

D. none of these

Answer: B

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4. On selling an article for Rs.48 a shopkeeper

loses 20%. In order to gain 20%, what would

the selling price?

A. Rs.52

B. Rs.56

C. Rs.68

D. Rs.72

Answer: D

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5. On selling an article at a certain price a man gains 10%. On selling the same article double the price, gain per cent is

A. 20 %

B. 100 %

C. 120 %

D. 140 %

Answer: C

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6. Bananas are bought at 3 for Rs. 2 and sold

at 2 for Rs. 3. The gain per cent is

A. 0.25

B. 0.5

C. 0.75

D. 1.25

Answer: D

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7. If the selling price of 10 pens is the same as

the cost price of 12 pens then gain per cent is

A. 0.02

B. 0.12

C. 0.2

D. 0.25

Answer: C

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8. On selling 100 pencils a man gains the selling price of 20 pencils. His gain per cent is

A. 0.2

B. 0.25

C. $22\dfrac{1}{2}\%$

D. $16\dfrac{2}{3}\%$

Answer: B

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9. Ravi buys some toffees at 5 for a rupee and sells them at 2 for a rupee. His gain per cent is

A. 0.3

B. 0.4

C. 0.5

D. 1.5

Answer: D

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10. Oranges are bought at 5 for Rs. 10 and sold

at 6 for Rs.15. His gain per cent is

A. 0.5

B. 0.4

C. 0.35

D. 0.25

Answer: D

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11. By selling a radio for Rs. 950, a man loses 5%. What per cent shall he gain by selling it for Rs,1040 ?

A. 0.04

B. 0.045

C. 0.05

D. 0.09

Answer: A

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12. The selling price of an article is $\dfrac{6}{5}$ of the cost price. The gain per cent is

A. 0.2

B. 0.25

C. 0.3

D. 1.2

Answer: A

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13. On selling a chair for Rs.720, a man loses 25%. To gain 25% it must be sold for

A. Rs.900

B. Rs.1200

C. Rs.1080

D. Rs.1440

Answer: B

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14. The ratio of cost price and selling price of an article is 20 : 21. What is the gain per cent on it ?

A. 0.05

B. $5\dfrac{1}{2}\%$

C. 0.06

D. $6\dfrac{1}{4}\%$

Answer: A

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15. A man sold two chairs for Rs. 500 each. On one he gains 20% and on the other he loses 12% His net gain or loss per cent is

A. 1.5% gain

B. 2% gain

C. 1.5% loss

D. 2% loss

Answer: C

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16. The profit earned on selling an article for Rs.625 is the same as loss on selling it for R.435. The cost price of the article is.

A. Rs.520

B. Rs.530

C. Rs.540

D. Rs.550

Answer: B

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17. A man buys an article for Rs.150 and makes

overhead expenses which are 10% of the cost

price. At what is the cost price must he sell it to gain 20% ?

A. Rs.182

B. Rs.192

C. Rs.198

D. Rs.208

Answer: C

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18. If an article is sold at a gain of 5 % instead of being sold at a loss of 5%, a man gets Rs.5 more. What is the cost price of the article?

A. Rs.50

B. Rs.40

C. Rs.60

D. Rs.80

Answer: A

19. A dealer lists his articles at 20% above cost price and allows a discount of 10%. His gain per cent is

A. 0.1

B. 0.08

C. 0.09

D. $8\dfrac{1}{4}$ %

Answer: B

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20. The marked price of an article is 10% more than the cost price and a discount of 10% is given on the marked price. The seller has gain or loss

    A. no gain and no loss

    B. 1% gain

    C. 1% loss

    D. none of these

Answer: C

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21. The price of watch including 10% VAT is Rs. 825. What is its basic price?

    A. Rs. 742.50

    B. Rs.775

    C. Rs.750

    D. Rs.907.50

Answer: C

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1. By selling a flower pot for Rs. 322, a man

gains 15% .

At what price should he sell it to gain 20% ?

    A. Rs.200

    B. Rs.300

    C. Rs.336

    D. Rs.330

Answer: C

2. If the cost of 12 pens uis equal to the selling price of 16 pens. Find the loss percent

3. A dealer gets Rs. 30 less if instead of selling a chair at a gain of 12% he sells it at a gain of 8%. Find the cost price of the chair?

4. A trader marks his goods at 30% above cost price and allows a discount of 10%. What is his gain per cent?

5. Find the single discount equivalent to successive discount of 20% and 10%

6. Rajan bought a watch for Rs.1870 including VAT at 10%. Find the original price of the watch.

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Test Paper 10 Mark Against The Correct Answer In Each Of The Following

1. On selling 100 pens, a man gains the selling price of 20 pens. The gain per cent is

A. 0.2

B. 0.25

C. $16\dfrac{2}{3}\ \%$

D. 0.15

Answer: B

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Test Paper 10 B Mark Against The Correct Answer In Each Of The Following

1. A man sells a bat for Rs. 100 gaining Rs. 20. His gain per cent is

    A. 0.2

    B. 0.22

    C. 0.18

    D. 0.25

Answer: D

▶ **Watch Video Solution**

2. The selling price of an article is $\dfrac{6}{5}$ of the cost price. The gain per cent is

A. 15%

B. 20%

C. 25%

D. 30%

Answer: B

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3. On selling a chair for Rs.680, a man loses 15%. To gain 15% it must be sold for

    A. Rs.800

    B. Rs.860

    C. Rs.920

    D. Rs.884

Answer: C

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4. A dealer lists his goods at 20% above cost price and allows a discount of 10%. His gain per cent is

A. 0.1

B. 0.09

C. 0.08

D. 0.12

Answer: C

5. The price of a watch including 8% VAT is Rs.810. What is its basic price?

A. Rs.675

B. Rs.729

C. Rs.750

D. Rs.745

Answer: C

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1. The discount is reckoned on the ....price.

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2. Gain or loss is always reckoned on the ....

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3. SP=(Marked price)-(..........)

A. Discount

B. Cost price

C. profit

D. loss

Answer: A

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4. VAT is charged on the ....of the article.

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1. $SP = \dfrac{(100 - loss\ \%\ )}{100} X CP$

2. $CP = \dfrac{100}{(100 + gain\ \%\ )} \times SP$

A. F

B. T

C. Can not say anything

D. May or may not be true

Answer: B

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3. Gain is reckoned on the selling price.

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4. Write $'T'$ for True and $'F'$ for False for each of the following:

The discount is allowed on the marked price.

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