



## MATHS

## BOOKS - PEARSON IIT JEE FOUNDATION

# PERCENTAGES, PROFIT AND LOSS, DISCOUNT AND PARTERSHIP



**1.** Express 36~% as a fraction.



## **4.** Find 36% of 30



7. What percent of 3.6 km is 360 metres ?



**10.** If anils salary is 20% less than Raju salary then by what percent is Raju's salary more than that of Anil ?



**11.** Mohit's weight is 40 kg and and Rohan's weight is 35 Kg. By that per cent is Rohan's

weight less than that of Mohit's



**12.** In an examination , Mohit secured 60% of the maximum marks which is 45 marks more than the pass marks . If the pass mark is 45% then find the maximum marks in the examination

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**13.** The price of an article is decreased by 20% By what percentage its consumption must be increased so that the expending on it increase by 10% Choose the correct answer from the

following options

A. 10~%

 $\mathsf{B}.\,25~\%$ 

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

D. 
$$37.5~\%$$

#### Answer:



**14.** In an office 60% of the employees are female 30% of the female employees have children and 20% of the men employees have children.what percentage of employees have children. Choose the correct answer from the following options.

A. 28~%

 $\mathsf{B.}\,26~\%$ 

C. 30%

D. 32~%

#### Answer:



**15.** A shopkeeper bought a cycle for Rs 1200 and sold it for Rs 1500 . Find his profit or loss percentage

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16. Rakesh pruchased a Tv for Rs 500. He paid

Rs 250 for its transportation . If he sold the TV

for Rs 5075 then find his profit or loss

percentage.



17. By selling 24 pens Kranthi lost an amount

equal to the CP of 3 pens Find his loss

percentage



**18.** Naresh sold two books for Rs 600 each therby gaining 20% on one bool and losing 20% on the other book. Find his overall loss or gain percent.

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**19.** By selling a ball for Rs 39 a shopkeeper gains 30% At what price should he sell it to gain 40%

**20.** A merchant marked his product at 50% above the cost price and then allowed 50% discount before selling it . The selling price of the product was Rs 225. What is the profit that he made incurred out of this ? Choose the correct answer from the following options:

A. profit of Rs 37.50

B. profit of Rs 75

C. loss of Rs 75

D. loss of Rs 37.50

#### Answer:



**21.** The cost price and the marked price of a watch are Rs 200 and Rs 300 . It was sold at a discount of y% the profit percentage was  $\frac{3}{2}y$ % .Find the value of y from the following options

A. 16. 
$$\frac{2}{3}$$



D. 20

#### Answer:



**22.** Satish and Kranthi started a business with capitals of Rs 12,000 and Rs 18,000 respectively . The business made a profit of Rs 3500 .Find the share of Kranthi and Satish in the profit at the end of the year.



**23.** Rakesh set up a factory with a capital of Rs 90.000 Ramesh joined him later with an investment of Rs 50,000. The total price earned at the end of the year was Rs 68,000 .find when Ramesh joined Rakesh as the partner if Rakesh's share in the profit is Rs 48,000

**24.** Naresh, Gopi and Sarath started a business with investments of ₹ 10000, ₹ 20000 and ₹ 20000 respectively. After 6 months Gopi withdrew an amount of ₹ 5000 from his investment. After 3 more months, Sarath added ₹ 10000 to his investment. If at the end of the year, the total profit earned is ₹ 36000, then find the share of each.



**25.** In a business P,Q,R and S are four partners . Ps investment is twice R 's investment Q 's investment is  $\frac{1}{4}$  of S's investment and P and Q invested equally . If the total profit at the end of the year is Rs 13,000 then find the sum of the share of p and R in the profit.

A. Rs10,000

 $\mathsf{B.}\,Rs3000$ 

 $\mathsf{C.}\,Rs4000$ 

D. Rs5000





## Test Your Concepts

**1.** 26% of 640 is \_\_\_\_\_

**2.** If X is 20 % more than Y then what per cent of Y is X ?

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**3.** Find the value of 99% of 1500 +45% of 360 +

55.99% of 3600.

**4.** if 
$$.rac{1}{4}$$
 is 25 % , then  $rac{9}{16}$  is \_\_\_\_\_



- **6.** the ratio of incomes of Akshay and Aravind
- is  $4:\frac{11}{3}$ . Income of Aravind is less than that

of Akshay by \_\_\_\_\_%

**7.** Koutons an apparel showroom offers two successive discounts of 50% and 20% what is the single equivalent discount percentage



8. In the cost price of an article is Rs 64 and it

selling price is Rs 80 then profit percentage is



**9.** If cost price if Rs 100 marked price is 200% above the cost price and discount offered is 50% then profit per cent is \_\_\_\_\_



**10.** If Nityananda scored 25% more than Adviata then Adavita scored \_\_\_\_% less than

Nityananda.



11. If 2a = 3b,  $b = \frac{3}{4}c$  and c=0.8d then find by what percent is a less / more than d. Watch Video Solution

**12.** If the cost price of five apples is equal to the selling price of 3 apples then find the profit percentage .

**13.** If the cost price is obtained by multiplying the selling price by  $\frac{7}{8}$  then find the profit percentage



14. This year the number of children in a colony is three times that of the previous year
. What is the percentage increase in the number of children in the colony ?



15. A number becomes 63 after it is reduced by

12.5%

The original number is \_\_\_\_\_

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## **16.** 50% of 50% of 50% iof 10 % of 560 is \_\_\_\_\_

17. when calculated on selling price profit is

found to be 25% find the actual profit percent.

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**18.** If Krishna and Balaram share profits in the ratio 3: 5 at the end of the year. Then the share of Krishna in the total investment of Rs 16,000 crores is Rs \_\_\_\_\_

**19.** If Nanda sold and article ar Rs 40 and earned 100% profit then what should be the selling price to earned profit of 300%

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**20.** An article is marked up by 100 % if a discount of Rs 12 on it is equal to 10% then the cost price of the article is \_\_\_\_\_



22. When the selling price is Rs 80 there is a

loss of 20% .Find the selling price to earn 40%

profit .



23. In a lass ,40% of students are girls . Of the

total number of boys 50% failed in an exam.

What per cent of the boys passed in the exam?



**24.** Ram and Lakshman started a business by investing Rs 30 Laks and Rs48 lakhs respectively. The ratio in which they share the profit is \_\_\_\_\_



**25.** Santan sells a diamond at a loss of 10 % if he had sold at a profit of 5% he would have earned Rs 37.5 lakhs more. What is the cost price of the diamond/

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**26.** The cost price of a machine is 66.  $rac{2}{3}$  % of

its selling price then profit per cent is \_\_\_\_\_

**27.** A person sells 33.  $\frac{1}{3}$  % of his property at 20% loss .At what profit per cent should he sell the remaining property to earn 20% profit on the whole?

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28. if 30% of 40% of x=60% of 12.5 % of 96.

then x is \_\_\_\_\_

**29.** if two bikes are sold at the same price so that there is a profit of 45 % on one bike and loss of 45% on the other . The net result of the transaction is \_\_\_\_\_ (loss / profit) and it is \_\_\_\_\_%

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**30.** Every year there is a 30% hike in Rama's salary . If his present salary is Rs 2000, then his salary after two years will be Rs \_\_\_\_\_

## Short Answer Type Question

**1.** the selling price and the marked price of an article are Rs 132 x and Rs 165x respectively . If the article is marked 65% above the cost price and a discount of Rs 198 is given then find the profit on the article



**2.** the cost of a piece of land increases by 50% every year from 2005 onwards If the difference in the cost price of the land between the third and the second year is Rs 67,500 then find the cost of the land in 2005.

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**3.** In an election there were only two contestants.

The democrats secured 35% valid votes more

than the republicans if 6% of votes were invalid then what percentage of the total votes polled was in favour of the democrats

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**4.** By selling an article at  $\frac{1}{4}$  of its actual selling price a trade incurs a loss of 50%. What will be the profit per cent if the trade sells the article at its actual selling price?



**5.** An electric room heater is sold at \$880 after a reduction of 12% in its price .What was the original price in dollars before the reduction ?



6. A dishonest trader declares to sell his goods

at cost price but gives only 960 gms for every

1kg. Find the error percentage.
**7.** A mock IIT-JEE exam constitutes of 150 questions.

Each correct answer fetches 4 marks . There is a penally of 2 marks for every incorrect answer and a penalty of 1 mark for every unattempted question Find the percentage of marks scored by the students by attempting 120 questions of which 33.  $\frac{1}{3}$  % are incorrect.

**8.** Noel and Mathew save 20% and 30% of their income if their expenditures are equal and Mathew's income is \$5600 then find Noel 's savings (in dollars).

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**9.** In an election there were only two candidates A and B.A secured 60% valid votes more than B nad 9% of the total votes were

invalid .What percentage of the total votes

was in favour of A



**10.** A trade suffered a loss of 15% by selling ans article Had the sold it for Rs 100 More , he would have made a profit of 5% .find the article cost price.



12. Find the single discount equivalent to

successive discounts of 25% and 20%

**13.** Ajay marked an article at 60% above its cost price Find the maximum percentage of discount he can offer and still avoid incurring a loss.



14. Find the single discount equivalent to

successive discount of 20% and 10%

15. Profit percentage is numerically equal tothe cost price of an article on selling it for Rs31.25 Find the cost price.

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Essay Type Question

**1.** Anthony spends x % of his salary towards expending on food , 2x% of the remaining on transport 3x% of the remaining towards various bills 4x% of the remaining towards loan repayments if the expenditures are denoted as F,T,B and L, respectively if x is 10 then what is the ascending order of these amounts?

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**2.** Three merchants A,B and C marked three identical articles each ar Rs 2000.A sold his article after two successive discounts of 40% and 20% C sold his article after successive

discounts of 50% and 10% .Find the highest

selling price.



**3.** In a business ,A,B,C and D are the four parther A's investment is thrice C's investment. B's investment is  $\frac{1}{3}$  of D's investment .A and B investment equally .The total profit at the end of the year is Rs 16,00.Find the sum of the shares of A and C in the profit. **4.** Amar ,Bhuvan and Chetan have some marble with them. Bhuvan has 20% more marbles than Amar and Chetan has 10% less marbles than Bhuvan . If the total number of marbles with them is 328 then find the number of marble with Bhuvan.

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**5.** In a business ,Gita and Sita invested in the ratio of 4: 5 At the end of the year they earned

a profit of Rs 72,000 if Sita's salary is included the ratio of their earning is 1:2 Find the salary of sita.

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# **Concept Applications Level 1**

**1.** The population of a city increases by 20% at the end of every year. During which of the following years , the population would be doubled ? A. second

B. third

C. fourth

D. fifth

Answer: C



**2.** if 20% of a and 40% of b is 230 and 40% of a and 20% of b is 190 ,then b is what percentage more or less than a ? A. 0.8

B. 0.6

C. 0.5

D. 0.4

Answer: A



**3.** In all the three sections of Woodland High school there are 50,70 and 80 students , those who secured F grade are 10%,20%, and 30%

respectively.What percentage of the total

students in the school secured F grade ?

A. 12.5

 $B.\,15.6$ 

 $C.\,21.5$ 

D. 23.4

Answer: C



**4.** In a test Arun scored 20 % and failed by 10 marks Bala scored 40% in the same test and obtained 10 marks more than the pass mark. Find the maximum marks.

A. 100

B. 300

C. 400

D. 200

Answer: A



**5.** On an occasion 40% of the young men wear grey hats 60% of the remaining young men wear black hats. What percentage of the young men wears meither grey hats nor black hats ? (No young man wears both grey hat had black hat )

A. 0.12

B. 0.18

#### C. 0.24

D. 0.25

#### Answer: C

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**6.** If a number x is increased by 20% and then reduced by 20, it results in 160 .Instead, if the number x is rduced by 20% and increased by 20 then what will be the result?

## **A.** 140

**B**. 144

 $C.\,148$ 

D. 152

Answer: A

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7. the price of a commodity is decreased by 25% By what percentage must its consumption increase so that the expenditure on its remains unchanged? A. 0.25

B. 0.2

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

D. 
$$10~\%$$

## Answer: B



8. If the cost price of 15 articles be equal to the

selling price of 20 articles, then find the loss %

in the transaction.

A. 25% profit

B. 20% profit

C. 33.33% loss

D. 25% loss

#### Answer: D

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**9.** In a test by scoring  $41.\frac{2}{3}$ % of the maximum marks a student obtains 10 marks more than the pass marks .By scoring 30% of

the maximum marks another student scores 4

marks less than the pass mark. Find the actual

pass percentage

A. 11. 
$$\frac{2}{3}$$
 %  
B. 22.  $\frac{1}{6}$  %  
C. 33.  $\frac{1}{3}$  %  
D. 66.  $\frac{2}{3}$  %

### Answer: C

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**10.** The profit made in selling 25m of a cloth equals the selling price of 5m of that cloth. Find the profit percentage

A. 25~%

B. 20~%

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

D. 15~%

## Answer: A



**11.** Ajay sold two motorbikes for Rs 40,000 each. He sold one at 20% profit and the other at 20% loss. Find the profit or loss percentage in the whole transaction.

A. 2% profit

B. 3% loss

C. 4% loss

D. No profit no loss

# Answer: C

**12.** A sold an article to B at 30% loss B sold it to C at 20% profit and C sold it to D at 10% profit . If D bought if for Rs 924 then the cost price for A. (in Rs)

A. 1200

B. 1050

C. 900

D. 1000

Answer: D

**13.** Raja spent 0,5x% of his monthly salary on rent. He spent x% of the remanining salary on food .2x% of the remaining salary on transport and 4x% of the remaining salary on various bills . It these expenditures are denoted by R,F ,T and S, respectively and if x , is 20 then find the ascending order of these expenditures.

A. R,S,F,T

# B. R,F,T,S

# C. R,T,F,S

D. R,F,S,T

## Answer: B



**14.** In a certain season the Indian cricket team had a 40% success rate in the first 80 matches it played. What is the minimum number of additional matches it must play so that it has a 60% success rate for the season ?

A. 30

B.40

C. 45

D. 35

Answer: B



**15.** In the cost price of 20 articles is equal to the selling price of 15 articles then find the profit or loss percentage.

A. 20~% loss

B. 25% profit

C. 33. 
$$\frac{1}{3}$$
 % profit

## Answer: C





In x denotes the percentage increase in the number of first generation innigrants from 1990 -2000 and y denotes the percantege increase in the total population of US from 1990-2000 which of the following is equal to (x-y)?

A. 0.125

#### B. 0.122

C. 0.096

D. 0.075

#### Answer: D



**17.** Trader A gives a single discount of 30% and trader B gives two successive discounts of 20% and 10% on an identical article. If the discount given by A is Rs.600 more than the

discount given by B, find the marked price of

the article.

A. Rs 1500

B. Rs 3000

C. Rs 30,000

D. Rs 600

Answer: C

**18.** X sells an article to Y at 15% profit . Y sells it to Z at 10% profit .What is X's cot price if Y markes a profit of Rs 23

A. Rs 230

B. Rs 200

C. Rs 150

D. Rs180

**Answer: B** 



**19.** When a discount of 10% is given on markled price, the gain of trader is 20% What will be profit percentage, if a discount of 13% is given?

A. 0.12

B. 0.16

C. 0.2

D. 0.24

Answer: B





If p denotes the percentage increase in the number of the first generation immigrants from 1995-2005 and q denotes the percentage increase in the total UK population from 1995-2005 find p-q

A. 13. 
$$\frac{1}{3}$$
 %  
B. 26.  $\frac{2}{3}$  %

C. 33. 
$$\frac{1}{3}$$
 %  
D. 46.  $\frac{2}{3}$  %

## Answer: B



**21.** A shopkeeper marks the price of an article 50% above the cost price and declares a discount of 20%. If profit earned is Rs. 30, then find the marked price

A. Rs 150

B. Rs 180

C. Rs 225

D. Rs 250

Answer: C

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**22.** In a business P,Q and R are three partners . Thrice P's investment is equal to twice Q's investments and R's investment is equal to twice P's investment

Q's period of investment is  $\frac{4}{3}$ times P's period of

investment and is twice R's period of investment .If the total profit at the end of the year is Rs 52,000, Find the sum of the shares of P and Q in the profit . (in Rs)

A. 32000

B. 36000

C. 40000

D. 28000
# Answer: B



**23.** Ratan spends 70% of his income. His income increases by 25% and his expenditure also increased by 25%. Find the percentage increase in his savings.

A. 25

B. 30

D. No change

Answer: A

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**24.** The selling price of article is Rs 39. If numerical value of profit percent is equal to cost price then find the cost price of the article

A. *Rs*28

B. *Rs*32

C. Rs30

D. *Rs*35

# Answer: C

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**25.** the selling price of an after giving three successive discounts is Rs 7560. If the marked price is Rs 15,000 then which of the following can be the successive discounts?

A. 8,16,24

B. 5,10,15

C. 10,20,30

D. 10,30,45

Answer: C

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**26.** A trader marks his product 30% above his cost price and then offers a 30% discount

.Find his cost price if the incurs a loss Rs 900.

(in Rs)

A. 12000

B. 10000

C. 9000

D. 8000

Answer: B



**27.** the loss made in selling 20 m of a cloth equals the cost price of 4 m of that cloth .Find the loss percentage

A. 20~%

 $\mathsf{B.}\,25~\%$ 

C. 32. 
$$\frac{1}{3}$$
 %

D. 40~%

#### Answer: A



**1.** Three merchants P.Q, and R marked three identical articles each at Rs 4000 ,respectively P sold his article after two successive discounts of 40% each. Q sold it after successive discounts of 50% and 30 % R sold it after successive discounts of 60% and 20 % .Find the least selling price (in Rs)

A. 1320

B. 1280

C. 1440

D. 1200

#### Answer: B



2. A shopkeeper marks the cost of two identical articles one 100% above the cost price and the other 50% above the cost price . If a discount of 20% is allowed on each of them then find the overall profit percentage A. 10~%

B. 20~%

C. 30~%

D. 40~%

Answer: D



**3.** The profit made by a merchant in selling 5 m of a cloth was equal to the cost price of 2 m of

the cloth. Find this profit percentage.

A. 30~%

B. 40 % C. 33.  $\frac{1}{3}$  %

D. 
$$45~\%$$

# Answer: B



**4.** The price of an article is increased by 20%

.By what percentage must its consumption be

reduced so that the expenditure on it reduces

by 10%?

- A. 20~%
- B. 30~%
- C. 25~%
- D. 15~%

### Answer: C





A. 0.09

B. 0.1

C. 0.11

D. 0.13

# Answer: C



**6.** A person bought two articles for Rs 1800. He sold the first article at a profit of 25% and the second at a loss of 20%. On the whole there is neither loss norgain . Find the cost price of the second article

A. Rs 800

B. Rs 1000

C. Rs 900

D. Rs 1200

#### **Answer: B**



**7.** The ratio of the marked price and the cost price of an article is 5: 3 .If a loss of 2a% is obtained after giving a discount of 4a% then find a

A. 14. 
$$\frac{6}{7}$$
  
B. 12.  $\frac{3}{7}$   
C. 13.  $\frac{2}{7}$   
D. 14.  $\frac{2}{7}$ 

# Answer: D

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**8.** Three person X, Y and Z started a business with investments in the ratio of 3:2:4. The ratio of their periods of investments is 5: 6: 7.

The differense in the shares of profits of X and

Z is what percentage of the share of profit of Y

at the end of the year (Approximately)

A. 120~%

**B**. 108.33 %

C. 115.25 %

D. 125.66~%

Answer: B

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**9.** Ajay invested Rs m for 7 months and Rs n for the remaining period . Sohail ivested Rs n for the first 9 months and Rs m for the remaining period . If at the end of the year they share profits equally then what is the relation between m and n

A. m=n+1

B. m-n=2

C. m=n

D. m+n=2

# Answer: C



**10.** Ramesh spends 60% of his income .His income increased by 40% and also his expending by 40% The percentage of increase in his savings is \_\_\_\_\_

A. 20~%

 $\mathsf{B.}\,30~\%$ 

 $\mathsf{C.}\,40\,\%$ 

D. 50~%

#### Answer: C

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**11.** A dishonest shopkeeper sells the items at cost price. But, for every kg he gives 200 gm less.His profit percentage is

A. 0.2

B. 0.25

C. 0.3

D. 0.15

Answer: B



**12.** Preetam bought two mobile phones for Rs 4800 .He sold the first mobile phone at a loss of 15% and the second at a profit of 25% . On the whole there was neither loss nor gain. The cost price of the second mobile phone is

A. Rs 1800

B. Rs 3000

C. Rs 1200

D. Rs 2400

Answer: A



**13.** The selling price of a TV, after giving two successive discounts, is Rs.15,840. If the marked price is Rs.20,000, then which of the following could be the successive discounts given on the marked price of the TV?

A. 10,15

B. 12,15

C. 10,12

D. 15,18

Answer: C

14. In a business A,B and C are partners .Twice A's investment is equal to C's investment Also B's investment is equal to  $\frac{1}{2}$  of A's investment .A's period of investment is equal to 4 times C's period of investment and A and B invested for the same period . If the total profit at the end of the year is Rs 44,000 then find the sum of the shares of A and B in the profit.

A. Rs 22,000

B. Rs 11,000

C. Rs 16,500

D. Rs 33,000

#### Answer: B

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**15.** Ramapada had just enough money to purchase either 30 pens or 50 pencils . He decides to spends only 80% of his money and buys 10 pens . At the maximum how many pencils can he buy with the remaining money

### that he has?

A. 23

B. 24

C. 25

D. 26

Answer: A



**16.** A trader claims to sell his goods at cost price. But, he gives only 900 g for every kg. Find the profit percentage.

A. 11. 
$$\frac{1}{9}$$
 %  
B. 9.  $\frac{1}{11}$  %  
C. 10 %  
D. 12.  $\frac{2}{3}$  %

#### Answer: A

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**17.** Amish sold an article at two -thirds of the marked price and suffered a loss of  $16. \frac{2}{3} \%$ . Find the percentage of profit if he sold the article at the marked price.

A. 20~%

B. 25 % C. 16.  $\frac{2}{3}$  % D. 33.  $\frac{1}{3}$  %

#### Answer: B



**18.** Raman suffered a loss of 10% by selling an article Had he sold it by Rs 180 more he woul have made a profit of 2% .Find his cost price (in Rs)

A. 1350

B. 1800

C. 1650

D. 1500

# Answer: D



**19.** Anil bought certain number of books at the rate of 12 books for Rs 18 and sold them at the rate of 18 books for Rs 30.Find his profit /loss percentage

A. 9. 
$$\frac{1}{1}$$
 %  
B. 10 %  
C. 11.  $\frac{1}{9}$  %

D. 12. 
$$\frac{1}{2}$$
 %

#### Answer: C

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**20.** In an election there were only two contestants P and Q 14% of the total votes polled were invalid The number of valid votes secured by P was 15% more than secured by Q. What percentage of the total votes was cast in favour of Q?

A. 0.48

B. 0.375

C. 0.4

D. 0.315

Answer: C

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**1.** Bindu goes to a shop to buy a gift costing Rs 1500. On her request the shopkeeper allows two successive discounts of x% and y% (x < y). Bindu buys the gift for Rs 1188 including sales tax of 10% Which of the following could be the discount rates offered by the shopkeeper ?

A. 15~% , 20~%

B. 20~%~m25~%

C. 20~%, 30~%

D. 10~% , 20~%

#### Answer: D

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**2.** In the year 2001 , the population in a village is x . Every year the population increases by 10% . In which year for the first time will the population of the village be at least 50% more than that of year 2001 ?

B. 2006

C.2004

D. 2007

Answer: B

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**3.** In a family a person saves 30% of his income . If his salary is increased by 20% and saving are decreased by 20% then find the percentage increase in the expenditure.

A. 34. 
$$\frac{1}{4}$$
 %  
B. 37.  $\frac{1}{7}$  %  
C. 41.  $\frac{1}{7}$  %  
D. 43.  $\frac{1}{3}$  %

# Answer: B

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**4.** A sold an article to B at 10% profit . B sold it to c at 20% profit. Find the price at which A bought the article if B's profit is Rs 44. (in Rs) A. 150

B. 200

C. 250

D. 100

**Answer: B** 

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**5.** A person spends 20% of his salary on house

rent 20% of the remaining salary on clothes,

16.  $\frac{2}{3}$  % of the remaining on pertrol and 30%
of the remaining on food . If after incurring the above expenditure his savings are Rs 147

then find his his salary.

A. Rs 480

B. Rs 300

C. Rs 350

D. Rs 420

## Answer: D

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6. In an office 30% of the employes are nummarried, 20% of these employees are post-graduates. The number of married employees in the office who are postgraduates is 3.  $\frac{1}{2}$  times that of the unmarried employees who are post-graduates. What percentage of the married employees are post-graduates?

- A. 30~%
- B. 32~%
- C. 30%

## D. 27~%

## Answer: C

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7. Aman . Bhavan and Chetan divide a certain amount among themselves. The average of the amounts with them is Rs 1180. Amar's share is  $33. \frac{1}{3} \%$  more than that of Bhavan's and  $16. \frac{2}{3} \%$  less than that of Chetan's.Find Amar's share (in Rs) A. 1050

B. 1200

**C**. 1350

D. 1500

Answer: B

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**8.** In a certain season the Indian cricket team had won 30% of the first 60 matches it had played Find the minimum possible number of

additional matches it should play to achieve a

success rate of 44% in that season.

A. 20

B. 15

C. 25

D. 30

Answer: B



9. Mohan and sohan started a business. Mohan was a sleeping parther in the business. Sohan being the working parther took a certain monthly salary .At the end of the first year the total amount of profit was Rs 3,00,000. The ratio of Mohan's and Sohan's shares was 9:11. If Sohan's annual salary was excluded, the ratio of their shares become 9:7 . Find hte monthly salary of sohan. (in Rs)

A. 5400

#### B. 5000

C. 7500

D. 7800

### Answer: B



**10.** X and Y are two natural numbers. The sum of thrice of X and twice of Y is 230. If 3X increases by 40% and 2Y increases by 30% then their sum will increase by 84. If X decreases by 40% and Y decreases by 30%

then their sum will be \_\_\_\_\_

A. 58

**B.** 66

 $\mathsf{C.}\,52$ 

D. 46

Answer: A



**11.** Giri sold two books . The selling price of a book equals the cost price of the second book. He sold the first book at 10% profit and the second book at 10% loss. Find the overall profit/loss percentage.

A. 
$$\frac{5}{21}$$
 % profit  
B.  $\frac{5}{21}$  % loss  
C.  $\frac{10}{21}$  % profit  
D.  $\frac{10}{21}$  % loss

Answer: D



**12.** P sold an article at 20% profit to Q. Q sold it at 10% profit to R. the profit made by Q was Rs 24 less than the profit made by P .Find the cost price of the article for P. (in Rs)

A. 250

B. 300

C. 360

D. 200

## Answer: B



**13.** In a class, 45% of the students drink orange and 90% of the remaining students drink Maaza No student drinks both Maaza and orange. Find the percentage of students in the class who drink neither Maaza nor orange.

A. 4.5~%

 $\mathsf{B.}\,6.5\,\%$ 

C. 7.5 %

D. 5.5~%

## Answer: D

