

Q1. The value of a car at the beginning of a year is 10% less than the value of the same car at the beginning of the previous year. If the car is valued at Rs. 1,45,800 on 1st January 2000 what was its value on 1st January 1997?

- (a) Rs 200000 (b) Rs 250000
(c) Rs 185000 (d) None of these

Q2. In an examination 42% of the candidates failed in physics, 24% failed in Chemistry and 14% of the candidates failed in both the subjects. If 72 candidates passed in both, find the total number of candidates in the examination?

- (a) 120 (b) 130
(c) 150 (d) 160

Q3. The number of students appeared from a school for the Madhyamik Examination in three consecutive years are in the ratio 7 : 8 : 10 and 75%, 87.5% and 93.75% of the students of respective years were successful. What is the percentage of students who were successful during these three years taken together?

- (a) 85.5% (b) 86.5%
(c) 87% (d) 88.5%

Q4. An alloy contains 89% of copper; find how much copper is to be mixed to a sample of alloy so as to get 44 kgs of a new metal having 90% copper in it?

- (a) 2 kg (b) 3 kg
(c) 2.5 kg (d) 4 kg

Q5. If the numerator of a fraction is increased by 150% and the denominator of the fraction is increased by 300% if the resultant fraction is $\frac{5}{18}$. What is the original fraction?

- (a) $\frac{4}{9}$ (b) $\frac{8}{9}$
(c) $\frac{6}{9}$ (d) None of these

Q6. An alloy of gold and silver weighs 50 grams. It contains 80% gold. How much gold should be added to the alloy so that percentage of gold is increased to 90?

- (a) 45 gm (b) 40 gm
(c) 50 gm (d) None of these

Q7. 5% of income of A is equal to 15% of income of B and 10% of income of B is equal to 20% of income of C. If income of C is Rs 2000, then total income of A, B and C is:

- (a) 26,000 (b) 16,000
(c) 18,000 (d) 20,000

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Q8. The population of a town is 10,000. If the males increase by 5% and the females by 6% the population will be 10,540. How many females are there?

- (a) 4000 (b) 4500
(c) 4800 (d) 5400

Q9. A reduction of 21% in the price of wheat enables a person to buy 10.5 kg more for Rs 100. What is the original price per kg.?

- (a) Rs 2 (b) Rs 3
(c) Rs 2.50 (d) Rs 3.50

Q10. A labor works 60 hour per weak & he earns Rs 2400 as wages. If his per hour wages increases by 40% and duration of work reduced by $16\frac{2}{3}\%$. Find % change in his income?

- (a) $16\frac{2}{3}\%$ (b) 12.5%
(c) 15% (d) 18%

Q11. A man multiply a no. by $\frac{7}{4}$ instead of $\frac{3}{5}$. Find the % change in his revenue?

- (a) 190% (b) $191\frac{2}{3}\%$
(c) 150% (d) 180%

Q12. If a student scores 25% marks, then he is failed by 210 marks. But if he scores 55% marks, then he is passed with 240 marks. Find the passing %?

- (a) 40% (b) 39%
(c) 45% (d) 49%

Q13. In a zoo, there are rabbits & pigeons. If the heads are counted there are 280. If the legs are counted there are 820. How many pigeons are there?

- (a) 130 (b) 180
(c) 150 (d) 120

Q14. In an election 10% voters did not vote and $11\frac{1}{9}\%$ votes declared invalid votes and the winner got 75% of the valid votes. If he wins by 2000 votes. Then find the voting list?

- (a) 6000 (b) 5000
(c) 8000 (d) 7000

Q15. A salesman is allowed 12% commission on the total sales made by him and a bonus of 1% on the sales over Rs 15000. It the total earning of the salesman is Rs 7650. Find the total sales?

- (a) 72000 (b) 80000
(c) 60000 (d) 65000

Q16. Lucknow bound Shatabdi Express has a capacity of 500 seats of which 10% are in the Executive class and the rest chair cars. During one journey, the train was booked to 85% of its capacity. If Executive class was booked to 96% of its capacity, then how many chair car seats were empty during that journey?

- (a) 78 (b) 73
(c) 72 (d) None of these

Q17. Shobha's Mathematics test had 75 problem i.e., 10 Arithmetic, 30 Algebra and 35 geometry problems. Although she answered 70% of the Arithmetic, 40% of the Algebra and 60% of the geometry problems correctly. She did not pass the test because she got less than 60% of the problems right. How many more questions she would have needed to answer correctly to earn a 60% passing grade?

- (a) 4 (b) 5
(c) 6 (d) 7

Q18. 18% of A plus 15% of B plus 19% of C is equal to 17% of the sum of A, B and C. If $A - B = 500$ and $A - C = 3400$, what is the value of $A + B + C$?

- (a) 12,400 (b) 11,600
(c) 13,500 (d) None of these

Q19. In the Chidambaram's family the ratio of expenses to the savings is 5 : 3. But his expenses is increased by 60% and income increases by only 25% thus there is a deficit of Rs. 3500 in the savings. The increased income of Mr. Chidambaram's family is:

- (a) Rs. 35,000 (b) Rs. 28,000
(c) Rs. 25,000 (d) Rs. 18,500

Q20. At IIM Bangalore, 60% of the students are boys and the rest are girls. Further 15% of the boys and 7.5% of the girls are getting a fee waiver. If the number of those getting a fee waiver is 90, find the total number of students getting 50% concession if it is given that 50% of those not getting a fee waiver are eligible to get half fee concession?

- (a) 360 (b) 280
(c) 320 (d) 330

Q21. A and B have some guavas divided among themselves. A says to B "If I give you 25% of the guavas I have, I will still have 2 more guavas than you have." To this, B says "If you give me guavas equal to 70% of what I have now, I will have 4 more guavas than you have." What is the total number of guavas that they have?

- (a) 80 (b) 64
(c) 36 (d) 88

Q22. The annual earning of Mr. Sikkawala is Rs. 4 lakhs per annum for the first year of his job and his expenditure was 50%. Later on for the next 3 years his average income increases by Rs. 40,000 per annum and the saving was 40%, 30% and 20% of the income. What is the percentage of his total savings over the total expenditure if there is no interest is applied on the savings for these four years:

- (a) $49\frac{37}{87}\%$ (b) $41\frac{73}{83}\%$
(c) 53% (d) None of these

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Q23. A, B, C and D purchased a cine-multiplex for Rs. 56 lakhs. The contribution of B, C and D together is 460% that of A, alone. The contribution of A, C and D together is 366.66% that of B's contribution and the contribution of C is 40% that of A, B and D together. The amount contributed by D is:

- (a) 10 lakh (b) 12 lakh
(c) 16 lakh (d) 18 lakh

Q24. Ram prepares solutions of alcohol in water according to customers' needs. This morning Ram has prepared 27 litres of a 12% alcohol solution and kept it ready in a 27 litre delivery container to be shipped to the customer. Just before delivery, he finds out that the customer had asked for 27 litres of 21% alcohol solution. To prepare what the customer wants. Ram replaces a portion of 12% solution by 39% solution. How many litres of 12% solution are replaced?

- (a) 5 (b) 9
(c) 10 (d) 12

Q25. My friend Siddhartha Ghosh is working in the Life Insurance Corporation of India (LIC). He was hired on the basis of commission and he got the bonus only on the first years commission. He got the policies of Rs. 2 lakh having maturity period of 10 year. His commission in the first, second, third, fourth and for the rest of the years is 20%, 16%, 12%, 10% and 4% respectively. The bonus is 25% of the commission. If the annual premium is Rs. 20,000 then what is his total commission if the completion of the maturity of all the policies is mandatory:

- (a) Rs. 174,00 (b) Rs. 23,600
(c) Rs. 15,000 (d) Rs. 15,500

Q26. Mr. Amar spends 50% of his monthly income on household items and out of the remaining he spends 25% on travelling, 30% on entertainment, 15% on shopping and remaining amount of Rs. 900 is saved. What is Mr. Amar's monthly income?

- (a) Rs. 6,000 (b) Rs. 12,000
(c) Rs. 9,000 (d) Cannot be determined

Q27. In a test consisting of 80 questions carrying one mark each, Ankita answers 65% of the first 40 questions correctly. What percent of the other 40 questions does she need to answer correctly to score 80% on the entire test?

- (a) 60 (b) 80
(c) 95 (d) 40

Q28. In a class of 60 students and 5 teachers, each student got sweets that are 20% of the total number of students and each teacher got sweets that are 30% of the total number of students. How many sweets were there?

- (a) 845 (b) 897
(c) 810 (d) 104

Q29. In a college election fought between two candidates, one candidate got 55% of the total valid votes. 15% of the votes were invalid. If the total votes were 15,200, what is the number of valid votes the other candidate got?

- (a) 7106 (b) 6840
(c) 8360 (d) 5814

Q30. On a test consisting of 250 questions, John answered 40% of the first 125 questions correctly. What percent of the other 125 questions does she need to answer correctly for her grade on the entire exam to be 60%?

- (a) 75 (b) 80
(c) 60 (d) Cannot be determined

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