**1)The first half of the distance at 50m/s and second half at 75m/s. the total distance travelled is 3 km. Find the avg speed of the entire journey?**

**60m/s b)62.5m/s c)55m/s d)65m/s**

**2)To fill astorage tank of wheat 20 containers full fo wheat are reauired. How many containers of wheat will be required to fill the same tank if the capapcity of the containers is reduced ot two-fifth**

**Of their present capacity?**

**a)30 b)25 c)50 d)60**

**3)mauli purchased designer saree from Mumbai at 8/9th of its MRP. When she came back to Delhi her**

**Neighbor coaxed mouli to sell the saree to her. She was even ready to pay 9% more than its MRP. What would Moulis gain percentage be if she decided to sell the saree to her neighbor?**

**a)15.59% b)16.61% c)20.36% d)22.65%**

**4)The light fom a laser be travel at a speed of 3,00,000,000 mt per second. How far can it be seen within 20 nano seconds assuming that there is no obstruction in between?(1 nano seconds=20\*10-9 seconds)**

**a)3m b)20m c)6m d)0.6m**

**5)Find the value of x in the expression**

**6)Tremores of the earth quake were felt at intervals of 15 seconds. The first tremor was felt at 8.35.57am and the last tremor was 10.45.12am. How many times were the tremors felt?**

**a)484 b)485 c)441 d)525**

**7) A train travelling at 250kmph overtakes a cyclist who is travelling at 10kmph in 45 seconds. What is the length of the train in metres?**

**a)3000m b)5400 c)6000m d)10800m**

**8)The product of 2 coprimes is 253. What is the lcm of these numbers?**

**a)1 b)253 c)equal to Hcf d) cannot be determined**

**9)A seller purchases roses at Rs.96 a dozen and sells them at Rs. 10 per flower. What is the profit percent of the flower seller?**

**a)0.4 b)0.2 c)0.25 d)0.75**

**10)Three marketers distribute their productsin a colony for pilot testing. Marketer A distributes 150 litres to the people equally and then was left with a few items. Marketers B distributes 270 items to the people equally and then was left with the same number of items as the number left with marketer A. marketer C distributes 320 items to the people and is left with the same number of items as the number left with marketer A. what is the maximum possible number of people in the colony?**

**a) 10 b)50 c)75 d)100**

**11)Rasheb starts for a wedding venue at 6 pm and drives at a speed of 60kmph. Ramesh starts for the same venue at 6.30 pm, and drives at a speed of 75kmph. When will both reach the venue provided they reach at the same time?**

**a)8.00pm b)9.30pm c)9.00pm d)8.30pm**

**12) An export order for garments. He has 30 machines to complete the order in 60 days. How many machines would complete the job in 40 days?**

**a)50 b)25 c)35 d)45**

**13)if 2(2n+3)=(1/8(n-3)) then the value of n is?**

**a)3 b)2 c)0 d)-2**

**13) Ram is five years elder his youngest sibbling shreya. Shreya is two years younger than her brother Ritesh. Ritesh is 13 years old and is Ram”s brother. How old will Ram be in two years from now?**

**a)15 b)16 c)17 d)18**

**14)Annual sale therer was a flat discount of 40% on all items. Komal bought a pair of jeans for Rs.480.what is the labelled price of jeans?**

**a)699 b)799 c)899 d)720**

**15)Varun is guessing which of the 2 hands a coin. What is the probability that varun guesses correctly three times in a row?**

**a)1/4 b)1/6 c)1/8 d)1/2**

**16) Two numbers are 2970,30 respectively. Prime factors of the product of two numbers are?**

**a)2,3,5,11 b)2,3,7,11 c)2,4,5,11**

**17) In a class a candidate required to answer 5 questions in all, from 2 sections having 5 questions each what are the total ways which a c candidate can select questions. Provided that at least two questions are to be atttempted from each section?**

**a)200 b)20 c)100 d)10**

**18) The product of two numbers is 2208. If the LCm of th numbers is 552. What is their HCF?**

**a)4 b)12 c)24 d)Data inconsistent**

**19)alligations mixing**

**20) Rahul can finish one-fifth of his homework inone hour. Neha can finish three-seventh of her homeworkin one hour thirty minutes and Riya can finish threefourth of her homework inthreee hours thirty minutes. If allof them strart their homework at 12.00 pm, and can go to play as soon as they all finidh their homework. When can they start to play, if they take a break at 3.30pm for thirty minutes?**

**a)4.40 b)5.00 c)5.30 d)6.00**

**21) A shop offers Buy1 get 1 free offer on a t-shirt marked at Rs.2400. if after a sale the shopekeeper earns a profit of 33.33% find the actual price of the t-shirt?**

**a)900 b)1000c)1100 d)800**

**22) If 4 men can repair a road in 7 hours. How many men are required to repair the road in 2 hours?**

**a)7 b)10 c)14 d)17**

**23)Find the largest power of 20 contained in 100!**

**a)56 b)1 c)2 d)24**

**24)The largest power of 5 contained in 200!**

**a)40 b)49 c)50 d)57**

**25)what is the unit digit of 2720 ?**

**a)7 b)9 c)3 d)1**

**26) In a match awards are given to each of 11 members of the team and a trophy to the team. In all winning team gets 2.75 kg weightawards. If the weight of match winning trophy is 10275kg. what is the weight of the award given to each player?**

**a)700gm b)150gm c)124gm d)134gm**

**27)A store has a banner of 25% off on MRP of all branded items. Sheetal goes into the store and buys a belt worth Rs.75a shirt of rs.100 a shawl of Rs.2900. How much amount will she have to pay?**

**28)x and Y are 2 numbers which when divded by 6 leave a remainder of 4 and 5 respectively. What will be the remainder when x+y is divided b 6?**

**a)6 b)9 1) d)none of these**

**29) In howmany different ways can the letters oftheword “OPTICAL” be arraged so that the vowels always come together?**

**a)120 b)720 c)2160 d)4320**

**30) What is the least perfect square , which is divisible by 24,30 and 60?**

**a)3600 b)1600c)14400 d)32400**

**31) Maithili purchased a walkman from her friend. She then solditfor Rs.90. Had it been sold for Rs.105 the gain would have been ¼ of the former loss. What is thee cost of the walkman?**

**a)82 b)102 c)114 d)**

**32) In a test called ACSAT, the average marks of 15 test takers is 240. If the marks off 5 test takers are subtracted, the average marks decreases by 40. What is the average marks of 5 test takers?**

**a)600 b)200 c)240 d)320**

**33) If there are 150 babies born every minute. How many babies werer the same birth date world wide?**

**A)218000 b)216000 c)225000 d)230000**

**34)which of the givne numbers is exactly divisible by 11?**

**35) A teacher can divide her class into groups of 5,13, and 17. What is the smallest possible strength of the class?**

**a)1220 b)1105 c)940 d)**

**36) Find the least number which when divided by 24,30,48 and 60 leaves a remainder 2 each case?**

**a)238 b)242 c)4 d)2**

**37) From a group of 8 men and 8 women , 8 members are tobe selected for a teamsuch that women constitute at least 5 of the team.in how many way can be done?**

**38) How many toffees were distributed in total among Ankit, Anket and anuj in the ratio of 2:3:7, If Anket receives 84 toffees total?**

**a)300 b)312 c)324d)336**

**39) LCM andHCFof two numbers are 234 and 13 respectively, then the smallest factor of the product of the two numbers is ?**

**a)2 b)3 c)4 d)5**

**40) A women travels 10km to reach her office. She walks .5km on foot at a sped of 8kmph to catch her charted bus which travels at a 40kmph. Time taken by her to each the office is?**

**a)15min b)20min c)18min d)30min**

**41) whatis the value of (-3/7)-4 ?**

**42)If a=0.24 b=1.76 then compute thefollowing expression a4+4ab3+6a2b2+4ab3+b4?**

**43) A can do a job in 10days, working 8 hours a day. If women are 33.33% more efficient than men, how many women will it take the same job in 10 days, working 6 hours a day?**

**a)15b)12 c)16 d)10**

**44) A 20% reducdtion in the unit cost of an article enables one to buy 25 items more for Rs.1000. what is the original units cost of the item?**

**a)12 b)8 c)10 d)15**

**45) a number is multiplied by the fraction 4/5. But samir, by mistake multiplied by 5/4 and obtained the number is more than ...**

**46)What is the value of (10101)2.in decimal number system?**

**a)20 b)18 c)21 d)42**

**47) The reciprocal of the HCF and LCM of two numbers are 1/12 and 1/312 respectivley. If one of the numbers is 24 find the other number?**

**a)136 b)146 c)156 d)126**

**48)Find the 3 digit numbers can be made from the number 12345 are..**

**49) The numbers a, b and c are such that b is the simple interest on a, and c is the simple interest on b for the same period and same rate of interest. Find the relation between these three is**

**a)a2=bc b)c2=ab c)b2=ac d)a=b=c**

**50)identify the different types of numbers**

**51) If -3.4 is a number on the real numberline. If we subtract 1 from this number then the new number will be**

**52)In a poultry farm 50 hens give 200 eggs in 2 days, in howmany days will 20 hens give 400 eggs?**

**a)15 b)10 c)5 d)8s**

**53) Jagadish can build a wallin 10 days. Narender can build the same wall in 12 days. Sumit takes 15 days Sumit takes 15 days to do the same job. Which two of them should be finish the job in 6 days?**

# 54)A book store offers a 10 % discount on all the books sold plus an additional discount of 5% on the total bill if the total bill after the initial discount is more than or equal to Rs. 1000. Dilshan bought 3 books worth Rs. 450, Rs. 520 and Rs. 250 respectively. How much money was Dilshan able to save as a result of the various discounts offered by the store?​

# a)102 b)176.9 c)61 d)183

## 55)Shobhit bought 300 litres of milk at Rs. 19 per litre. He added 200 litres of water to it and sold 400 litres of this milk at Rs. 20 per litre. To the rest, he added 10 litres more water and then sold it for Rs. 15 per litre. If he used mineral water that costs Rs. 10 per litre, then the total money earned by Shobhit is :

# a)1850 b)4000 c)4150 d)1800

**56) On selling a bat at 5/7th of its marked price, the store earns 15% profit. What is the profit earned if it is sold at marked price?**

**a)20% b)61% c)39% d)40%**

# 57) Rajesh commutes daily by travelling 4/5 of the distance between his home and office by metro train, 3/20 by auto and remaining 1 km on foot. What is the distance between his home and office?

**a)12km b)16km c)20km d)24km**

**58)Find the smallest number that should be multiplied with 54000 to make it perfect cube?**

**a)4 b)27 c)5 d)3**

**59)The number of 6 digit even numbers that can be made from the number 214653?**

**a)18 b)72 c)360 d)240**

**60) Riya sold her car for Rs. 50,000 less than what she bought if for and lost 8%. At what price should she have sold the car, if she wanted to gain as much as she lost in the first transaction?**

**Rs. 6,25,000 Rs. 6,50,000 Rs. 6,75,000 Rs. 6,37,000 Rs. 7,00,000**

**61)A light blinks after every 3 seconds, another light blink after 5 seconds, and the third one blinked after every 16 seconds. How many times do they blink together in half an hour?**

**a)4 tiems b)7 times c)240 times d)8 times**

**62)What is the smallest square number which is divisible by 2,4,5,6,9?**

**a)200 b)90c)180 d)900**

**63) which is better: a successive discount of 40% and 30% or a discount of flat 70%?**

**64)Give the greatest twin primes which are below100?**

**a)71,73 b)93,95 c)97,99 d)87,89**

**65)Ifan integer”k” isdivisibleby 2,5, and 13,what is the next largest number that isdivisible by all three numbers?**

**a)2k b)2k+13 c)2k+65 d)k+13**

**66) Shalom offered to sell his ancestral house for 18400.if he had charged 10% less, he would have made a profit of 20%.What is the actual cost of the house?  
a)15800b)14500c)13800d)12500**

**67) a field person of a customer care department of a company on an average attends to 3 complaints.If customer care receives about 200 complaints daily, and have 45 field persons to attend to these,how many complaints are to be out sourced?  
a)145b)135c)55d)65**

**68)15c3**