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1.

## NUMBER SYSTEM

1. Find the smallest number which is divisible by 12, 18, 21 and 30.

- a) 1060                                  b) 1260
- c) 1620                                  d) 1020

2. A student, instead of dividing a number by 21, divided it by 12 and got the answer 35. Find the correct answer.

- a) 20                                      b) 15
- c) 26                                      d) 25

3. Find the smallest number which when added to 231228 is completely divisible by 33.

- a) 3                                        b) 4
- c) 2                                        d) 1

4. Find the largest number which will exactly divide 25, 35, 40 and 30.

- a) 35                                      b) 15
- c) 20                                      d) 5

5. Which of these numbers is not divisible by 8?

- a) 12676                                  b) 11504
- c) 12832                                  d) 12360

6.  $276x1$  is divisible by 3. What is the sum of possible values of  $x$ ?

- a) 18                                      b) 21
- c) 12                                      d) 15

7. On dividing 14528 by a number in a number system, Suresh gets the quotient 83 and the remainder 3. What is the denominator?

- a) 165                                      b) 185
- c) 195                                      d) 175

8. Find the smallest number which when added to 20000 makes their sum divisible by 12, 15 and 25.

- a) 180                                      b) 150
- c) 200                                      d) 100

9. The smallest cube number greater than 1000 which is divisible by 2, 4 and 6 is:

- a) 1296                                      b) 5832
- c) 1728                                      d) 4096

10. If the number  $x4461$  is divisible by 11 then what is the value of  $x$ ?

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

11. Which of the following numbers is divisible by 9?

- a) 56112                                  b) 89445
- c) 49653                                  d) 58556

12. Which of the following numbers is exactly divisible by 4?

- a) 6542176                                  b) 7253566
- c) 5632654                                  d) 4187290

13. When any natural number is divided by 4, 5, 6 or 7, a remainder of 1 is left in each case. What is that smallest number?

- a) 421                                      b) 61
- c) 841                                      d) 211

14. Which of the following is the largest number which, when divided by 105, leaves a remainder of 9 and when divided by 164, leaves a remainder of 20?

- a) 36                                        b) 48
- c) 24                                        d) 96

15. What is the largest number which divides 258 and 323 leaving remainders 2 and 3 respectively.

- a) 40                                        b) 24
- c) 64                                        d) 132

16. Which of the following numbers is divisible by 6?

- a) 12378                                      b) 12363
- c) 12370                                      d) 12388

17. Select the missing digit 'x' from the given options for the number  $987x54$ . So that the number is exactly divisible by 6.

- a) 2                                        b) 5
- c) 3                                        d) 1

18. What should be subtracted from 1265 so that the number obtained is completely divisible by 29?

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

19. Which of the following numbers should be subtracted from 1184 so that the resulting number is exactly divisible by 21?

- a) 15                                      b) 12
- c) 8                                        d) 7

20. What is the minimum amount that must be added to 1739 so that it becomes exactly divisible by 11?

- a) 11                                      b) 2
- c) 1                                        d) 10

21. Find the smallest number which when added to 1456 makes it completely divisible by 6, 5 and 4 –

- a) 6                                        b) 61
- c) 44                                      d) 16

22. Find the remainder when  $3^{10}$  is divided by 7.

- a) 4                                        b) 3
- c) 5                                        d) 6

23. Which of the following numbers is divisible by 12?

- a) 93412                                      b) 63412
- c) 73412                                      d) 83412

24. Which of the following numbers is divisible by 9?

- a) 56765                                      b) 47862
- c) 54321                                      d) 87654

25. If  $3x^2 + ax + 4$  is completely divisible by  $x - 5$  then what is the value of  $a$ ?

- a) -12                                      b) -5
- c) -15.8                                      d) -15.6

26. The sum of three consecutive odd numbers is 20 more than the first number. Find the largest number among these.

- a) 13                                      b) 9
- c) 11                                      d) 7

27. If  $3/11$

- a) 0.5                                      b) 1
- c) 2                                        d) 3

28. The product of four consecutive numbers is always divisible by which of the following numbers?

- a) 10                                      b) 22
- c) 24                                      d) 48

29. If the first number and second number are respectively 25% and 50% more than the third number, then find the ratio between the first and second numbers.

- a) 5 : 6                                      b) 2 : 1
- c) 6 : 5                                      d) 1 : 2

30. Of three consecutive odd integers, three times the first is 3 more than twice the third. Find the third integer.

- a) 15                                      b) 13
- c) 11                                      d) 9

31. What is the total number of tens in the range 1 to 99?

- a) 98                                      b) 90
- c) 99                                      d) 100

32. Series 12, 19, 26, 33..... What will be the 1st number in?

- a) 89                                      b) 75
- c) 82                                      d) 68

33. If the rational numbers  $-\frac{4}{9}, -\frac{7}{18}, \frac{5}{-6}, -\frac{2}{3}$  are arranged in ascending order, then which of the following numbers will be placed first?

- a)  $4/-9$                                       b)  $-7/18$
- c)  $5/-6$                                       d)  $-2/3$

34. The sum of how many terms in the series 7, 14, 21, 28..... is 952?

- a) 16                                      b) 17
- c) 18                                      d) 19

35. Find two consecutive numbers in which 3 times the first digit is 5 more than 2 times the second digit.

- a) 5 and 6                                      b) 6 and 7
- c) 7 and 8                                      d) 9 and 10

36. Find the value of  $6 + 11 + 16 + 21 + \dots + 71$ .

- a) 539                                      b) 561
- c) 661                                      d) 639

37. If 11, 17, 23..... are in an arithmetic progression, then find the 12th term.

- a) 77                                      b) 83
- c) 71                                      d) 89

38. Which of the following numbers is prime?

- a) 263                                      b) 243
- c) 253                                      d) 273

39. Find the largest two digit prime number.

- a) 93                                      b) 89
- c) 91                                      d) 97

40. What will be the product of smallest prime number and any whole number (except 0)?

- a) always zero                              b) always one
- c) always even number                      d) always odd number

41. Find the sum of prime numbers between 50 and 80.

- a) 392                                      b) 390
- c) 463                                      d) 396

42. The sum of which four odd prime numbers is 34?

- a) 1, 3, 5, 7                              b) 3, 5, 7, 9
- c) 3, 5, 11, 13                              d) 3, 7, 11, 13

43. How many times does the digit 2 appear in the tens place in counting from 1 to 100?

- a) 20                                      b) 11
- c) 10                                      d) 19

44. In a prime number.....

- a) There are more than two divisors.                      b) Is divisible only by itself and by 1.
- c) It has no divisor.                      d) is not a positive integer.

45. How many times does the number 5 occur in counting from 1 to 100?

- a) 21                                      b) 22
- c) 20                                      d) 19

46. Which of the following pairs are co-prime

- a) 348, 296                              b) 114, 213
- c) 59, 97                                      d) 3025, 4920

47. Which of the following numbers is divisible?

- a) 719                                      b) 709
- c) 729                                      d) 739

48. How many prime numbers are there in the first 100 natural numbers?

- a) 25                                      b) 27
- c) 24                                      d) 26

49. Which of the following sets forms co-prime numbers?

- a) (12, 7)                                      b) (21, 42)
- c) (3, 9)                                      d) (43, 129)

50. Which of the following is an odd composite number?

- a) 13                                      b) 17
- c) 12                                      d) 15

51. Find the sum of the first 8 odd prime numbers.

- a) 77                                      b) 98
- c) 75                                      d) 100

52. How many prime numbers are there between the positive integers 60 and 100?

- a) 9                                      b) 6
- c) 7                                      d) 8

53. Which of the following is a prime number?

- a) 121                                      b) 141
- c) 181                                      d) 161

54. Which of the following pair is not a pair of twin primes?

- a) 11, 13                                      b) 71, 73
- c) 131, 133                                      d) 191, 193

55. Which of the following is a prime number series from 1 to 20?

- a) 3, 5, 7, 11, 13, 17, 19                      b) 2, 5, 7, 9, 11, 13, 17, 19
- c) 2, 3, 5, 7, 11, 13, 17, 19                      d) 1, 2, 3, 5, 7, 11, 13, 17, 19

56. Which of the following numbers is not a composite number?

- a) 209                                      b) 203
- c) 161                                      d) 109

57. If  $x + y = 11$ , then  $(-1)^x + (+1)^y$ .....is equal to (where  $x$  and  $y$  are whole numbers)

- a) -1                                      b) 1
- c) 2                                      d) 0

58. From a 30 meter long cloth, 12 pieces each measuring 225 cm are cut and sold. What fraction of the original length is left?

- a)  $\frac{1}{3}$                       b)  $\frac{1}{9}$   
c)  $\frac{1}{10}$                      d)  $\frac{3}{10}$
59. If  $\frac{1}{7}$  of a number is subtracted from the number, the result is 30 less than the number. Find the number.
- a) 105                      b) 140  
c) 120                      d) 210
60. The product of two numbers is 24 and the sum of their squares is 52, then find their sum.
- a) 5                          b) 10  
c) 15                          d) 20
61. If 10 is subtracted from 5 times a number, then it will be equal to the number obtained by adding 8 to 4 times that number, then what is that number?
- a) 15                          b) 18  
c) 22                          d) 21
62. When 4 is added to 8 times a number, the result obtained is the smallest 3 digit number. What is that number?
- a) 12                          b) 10  
c) 15                          d) 8
63. The sum of two numbers is 22. Five times one number is equal to 6 times another number. Name the larger number among these two.
- a) 12                          b) 15  
c) 10                          d) 16
64. If doubling a number and adding 20 to it gives the same answer as multiplying the same number by 8 and subtracting 4 from the product, then find the number.
- a) 3                          b) 4  
c) 6                          d) 2
65. The product of two numbers is 9375. When the largest number is divided by the smallest number, the quotient is 15. Find the sum of these numbers.
- a) 4000                      b) 380  
c) 425                        d) 395
66. If two-thirds of one fourth of a number is 32, then find the number.
- a) 202                        b) 198  
c) 196                        d) 192

67. If the sum of two numbers is 13 and the sum of their squares is 97, then find their product.
- a) 72                          b) 36  
c) 110                        d) 84
68. Which of the following fractions when added to  $\frac{13}{5}$  gives the result 1?
- a)  $-\frac{48}{30}$                       b)  $-\frac{7}{5}$   
c)  $-\frac{28}{10}$                       d)  $-\frac{8}{15}$
69. What is the answer to  $\frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56}$ ?
- a)  $\frac{11}{24}$                         b)  $\frac{3}{8}$   
c)  $\frac{7}{16}$                         d)  $\frac{13}{28}$
70. Shalini, Tanveer and Rashid shared a cake. Shalini had  $\frac{1}{6}$  of it, Tanveer had  $\frac{1}{4}$  of it and the remaining part was with Rashid. What was Rashid's share of the cake?
- a)  $\frac{5}{6}$                           b)  $\frac{3}{5}$   
c)  $\frac{13}{15}$                         d)  $\frac{7}{12}$
71. The sum of two numbers is 9. is the sum of their reciprocals. One of these numbers is :
- a) 2                            b) 4  
c) 5                            d) 6
72. There are 200 students in a school in which the students are boys. Find the number of girl students in the school.
- a) 80                          b) 60  
c) 40                          d) 120
73. If the sum of two numbers is 26 and their difference is 12, then find the difference of their squares.
- a) 296                        b) 312  
c) 324                        d) 336
74. If the product of 2 numbers is 3 times their sum and one number is 12, then find the other number –
- a) 2                            b) 3  
c) 4                            d) 5
75. If the sum of two digits is 15 and the difference is 3 then those digits will be:
- a) 8 and 7                      b) 6 and 9  
c) 5 and 10                    d) 3 and 12
76. The sum of three consecutive even numbers is 42. Find the middle number.

- a) 12                                      b) 18  
c) 16                                      d) 14
- 77. Two participants M and N bought a car. M paid  $\frac{3}{7}$  of the cost of the car as his share. M earned Rs. 31,540 more than N. Gave less. How much does the car cost?**  
a) Rs 2,32,680                                      b) Rs 2,03,175  
c) Rs 2,20,780                                      d) Rs 1,85,780
- 78. If the cost of  $\frac{2}{3}$ rd portion of a pizza is Rs 300. If so, what will be the price of  $\frac{3}{5}$ th part of the pizza?**  
a) Rs 180                                      b) Rs 250  
c) Rs 225                                      d) Rs 270
- 79. When 472 pieces of plywood, each 0.23 cm thick, are placed one above the other, what will be the height in meters of the pillar so formed?**  
a) 10.856                                      b) 1.0856  
c) 108.56                                      d) 1.856
- 80. One big stick was made by joining 15 small rods of  $23\frac{2}{7}$  m lengths. What will be the length of the bigger rod?**  
a)  $349\frac{3}{7}$  m                                      b)  $349\frac{1}{7}$  m  
c)  $349\frac{2}{7}$  m                                      d)  $349\frac{5}{7}$  m
- 81. Calculate the difference between the largest and smallest two digit prime numbers?**  
a) 82                                      b) 83  
c) 84                                      d) 86
- 82. What is the largest four-digit number that is completely divisible by 49?**  
a) 9998                                      b) 9994  
c) 9992                                      d) 9996
- 83. Find the largest 4 digit number which is divisible by 15, 25, 40, and 75.**  
a) 9200                                      b) 9600  
c) 9400                                      d) 9000
- 84. Find the largest 4 digit number which is completely divisible by 88.**  
a) 9944                                      b) 9844  
c) 9768                                      d) 8894
- 85. Find the largest four digit number which is completely divisible by 27, 18, 15 and 12.**  
a) 9730                                      b) 9710  
c) 9700                                      d) 9720
- 86. What should be added to 135642 to get a larger 6 digit number?**  
a) 864350                                      b) 863357  
c) 864357                                      d) 864347
- 87. Find the largest four digit number which is exactly divisible by 49?**  
a) 9992                                      b) 9994  
c) 9998                                      d) 9996
- 88. Find the smallest four digit number divisible by 47.**  
a) 1200                                      b) 1025  
c) 1034                                      d) 1360
- 89. What is the largest 3 digit number which is exactly divisible by 10, 8 and 12?**  
a) 940                                      b) 960  
c) 980                                      d) 999
- 90. Find the smallest 4 digit number which is a perfect square –**  
a) 1000                                      b) 1024  
c) 1081                                      d) 1064
- 91. Find the smallest 6 digit number which is a multiple of 18.**  
a) 100000                                      b) 999900  
c) 100008                                      d) 100006
- 92. Express 0.125125125.....as a rational number.**  
a)  $\frac{119}{993}$                                       b)  $\frac{113}{990}$   
c)  $\frac{125}{999}$                                       d)  $\frac{100}{999}$
- 93. Find the smallest fraction.**  
a)  $\frac{3}{4}$                                       b)  $\frac{11}{13}$   
c)  $\frac{5}{7}$                                       d)  $\frac{9}{11}$
- 94. Which of the following numbers will have an irrational square root?**  
a) 21025                                      b) 18025  
c) 13225                                      d) 15625



95. Find the rational value of the denominator of  $1/(2+\sqrt{3})$ , :

- a)  $2+\sqrt{3}$                       b)  $2-\sqrt{3}$   
c) 1                                  d)  $4+\sqrt{3}$

96. Find the rational value of the denominator of  $1/(5+2\sqrt{3})$ .

- a)  $\frac{(5-2\sqrt{3})}{12}$                       b)  $\frac{(5-2\sqrt{3})}{13}$   
c)  $5-\frac{2\sqrt{3}}{13}$                       d)  $5+\frac{2\sqrt{3}}{13}$

97.  $(4)^{-3/2} = ?$

- a)  $1/4$                                   b) 8  
c)  $1/8$                                   d) 4

98. Which of the given options is a rational number falling between  $2/4$  and  $0.6$ ?

- a)  $11/25$                               b)  $21/41$   
c)  $3/4$                                   d)  $11/4$

99. Which of the following numbers is irrational?

- a)  $\sqrt[3]{64}$                                   b)  $\sqrt{64}$   
c)  $\sqrt[6]{64}$                                   d)  $\sqrt[4]{64}$

100. Which of the following is a rational number?

- a)  $\sqrt[3]{2}$                                   b)  $\sqrt[3]{8}$   
c)  $\sqrt[3]{4}$                                   d)  $\sqrt[3]{12}$

101. Which of the numbers given below is not a rational number?

- a)  $\sqrt{64}$                                   b)  $\sqrt[3]{64}$   
c)  $\sqrt[3]{8}$                                   d)  $\sqrt{8}$

102. All irrational numbers -

- a) Integer                              b) Imaginary  
c) whole numbers                      d) real number

103. Which of the following numbers is irrational?

- a)  $\sqrt{1000000}$                       b)  $\sqrt[3]{1000000}$

- c)  $\sqrt[6]{1000000}$                       d)  $\sqrt[4]{1000000}$

104. Which of the following numbers is irrational?

- a)  $\sqrt[4]{4}$                                   b)  $\sqrt[3]{8}$   
c)  $\sqrt{16}$                                   d)  $\sqrt[6]{1}$

105. Which of the following is a rational number?

- a)  $\sqrt[3]{2} - 2$                               b)  $\sqrt[3]{8} - 2$   
c)  $\sqrt[3]{4} + 4$                               d)  $\sqrt[3]{12} + 1$

106. Which of the numbers given below has a rational square root?

- a) 576                                      b) 512  
c) 480                                      d) 544

107. The square root of which of the following numbers will be rational?

- a) 46232                                  b) 46233  
c) 14448                                  d) 34225

108. The square root of which of the following numbers is irrational?

- a) 5184                                      b) 4465  
c) 3025                                      d) 8836

109. The square root of which of the following is a rational number?

- a) 336                                      b) 344  
c) 320                                      d) 324

110. The square root of which of the following numbers will be irrational?

- a) 6441                                      b) 9604  
c) 7921                                      d) 5776

111. The square root of which of the numbers given below is a rational number?

- a) 144                                      b) 136  
c) 128                                      d) 120

112. Express  $1/(2+\sqrt{3})$  as a rational number.

- a)  $5-2\sqrt{3}/12$                       b)  $(2-\sqrt{3})/1$   
c)  $(5-2\sqrt{3})/13$                       d)  $5+2\sqrt{3}/13$

**113. Find the smallest number which when added to 1780 makes the sum a perfect square.**

- a) 46                                      b) 49
- c) 69                                      d) 72

**114. Find the smallest integer whose cube is equal to itself.**

- a) -1                                        b) 2
- c) 1                                         d) 0

**115. If the cube of a number is subtracted from  $(153)^2$ , the number thus obtained is 1457. Find the number.**

- a) 18                                        b) 16
- c) 28                                        d) 24

**116. Five times a positive integer is 3 less than twice its square. Find the integer.**

- a) 3                                         b) 8
- c) 2                                         d) 5

**117. Find the smallest perfect square number which is divisible by 21, 36 and 66.**

- a) 214344                                b) 231444
- c) 214434                                d) 213444

**118. Which of the following square numbers cannot be expressed as the sum of two prime numbers?**

- a) 81                                        b) 49
- c) 121                                      d) 144

**119. By subtracting 4 times the number from 3 times the square of a number, the number obtained is 50 more than that number. Find the number.**

- a) 5                                         b) 4
- c) 6                                         d) 10

**120. Which of the following is not a perfect square?**

- a) 2025                                    b) 16641
- c) 1250                                    d) 9801

**121. Which of these numbers is not the sum of two squares?**

- a) 41                                        b) 13
- c) 23                                        d) 37

**122. Which of the following is a perfect square?**

- a) 9801                                    b) 9887
- c) 9013                                    d) 9016

**123. If the last digit of the square of a number is 1. Then what will be the last digit of its cube?**

- a) only 9                                    b) 1 to 9
- c) any odd number                      d) only 1

**124. The sum and difference of two numbers are 25 and 3 respectively. Find the difference of their squares.**

- a) 165                                        b) 75
- c) 154                                        d) 140

**125. How many perfect squares are there between 100 and 200?**

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

**126. What is the smallest number that can be added to 4042 to make it a perfect square?**

- a) 41                                        b) 54
- c) 64                                        d) 58

**127. Divide the number 137592 by the smallest number such that there is no remainder and the quotient is a perfect cube. Find the cube root of the quotient.**

- a) 8                                         b) 2
- c) 4                                         d) 6

**128. If a positive number is greater than its square root by only 30, then find the number.**

- a) 16                                        b) 36
- c) 25                                        d) 49

**129. What is the smallest number that should be added to the sum of squares of 15 and 14 so that the resulting number is a perfect square?**

- a) 17                                        b) 20
- c) 11                                        d) 9

**130. Calculate the sum of squares of numbers from 1 to 9.**

- a) 284                                        b) 285
- c) 385                                        d) 380

**131. Calculate the sum of squares of numbers from 1 to 10?**

- a) 384                                        b) 285
- c) 385                                        d) 380

**132. How many factors of 256 are perfect squares?**

- a) 5                                         b) 3
- c) 6                                         d) 4



133. What minimum number should be added to 7864 so that it becomes a perfect square?

- a) 61                                      b) 57  
c) 71                                      d) 79

134. Multiplying a positive integer by 4050 makes the number a perfect square. Find the square root of this number.

- a) 95                                      b) 80  
c) 90                                      d) 85

135. Which of the following numbers is a perfect square?

- a) 0.09                                      b) 8.1  
c) 0.025                                      d) All

136. do the Evolution -

$$\sqrt{30 + \sqrt{30 + \sqrt{30 + \sqrt{30 + \sqrt{\dots}}}}}$$

- a) 5                                      b)  $\sqrt{30}$   
c) 6                                      d) 5.8

137. Which of these numbers has the highest divisor?

- a) 156                                      b) 240  
c) 172                                      d) 200

138. Find the units place in the given factor  $(3451)^{51} \times (531)^{43}$ .

- a) 6                                      b) 4  
c) 1                                      d) 9

139. How many factors of 729 are perfect squares?

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

140. How many multiples of  $2^8 \times 3^2 \times 5^3 \times 7^5$  are even numbers?

- a) 288                                      b) 168  
c) 576                                      d) 464

141. How many multiples of  $2^9 \times 3^5 \times 5^4 \times 7^6$  are odd numbers?

- a) 288                                      b) 144  
c) 210                                      d) 140

142. What is the last digit of  $213^6$ ?

- a) 6                                      b) 3  
c) 7                                      d) 9

143. What is the smallest natural number 216 that should be multiplied so that the product has an odd number of factors?

- a) 4                                      b) 6  
c) 12                                      d) 8

144. What will be the digit at the ones place in  $[4523^{1632} \times 2224^{1632} \times 3225^{1632}]$ ?

- a) 1                                      b) 0  
c) 4                                      d) 5

145. Find the total prime factors in the product of  $\{(8)^{10} \times (9)^7 \times 7^8\}$ .

- a) 45                                      b) 54  
c) 52                                      d) 65

146. Find the total prime factors of the product  $\{(16)^7 \times (27)^6 \times 5^9\}$ .

- a) 28                                      b) 43  
c) 55                                      d) 56

147. Find the ones place in the given product  $(4211)^{102} \times (361)^{52}$ .

- a) 3                                      b) 1  
c) 4                                      d) 7

148. Find the units digit in the following:  $(1234)^{102} + (1234)^{103}$

- a) 2                                      b) 4  
c) 0                                      d) 1

149. Find the largest number by which dividing 115, 149 and 183 will leave 3, 5, 7 respectively.

- a) 20                                      b) 16  
c) 18                                      d) 14

150. Find the smallest number which, when divided by 5, 6, 7, 8, leaves a remainder of 3, and is also a multiple of 9.

- a) 1683                                      b) 843  
c) 1677                                      d) 1983

151. When a number is divided by 10, 9 and 8 separately, the remainder is 9, 8 and 7 respectively. Find the smallest number among them.

- a) 353                                      b) 719  
c) 1359                                      d) 359

152. When a number is divided by a divisor, the remainder is 24. When twice the same number is divided by the



**169. The sum of the digits of a two digit number is 10. If the digits are interchanged, the number is reduced by 54. Find the new number.**

- a) 73                                  b) 28  
c) 82                                  d) 37

**170. The sum of two digits of a number is 10. If the digits are interchanged, its value increases by 18. Find the number.**

- a) 46                                  b) 64  
c) 19                                  d) 28

**171. The sum of a two digit number and the number formed by interchanging its digits is 99. If the difference between the two digits is 3, then find the number.**

- a) 27                                  b) 63  
c) 45                                  d) 54

**172. The difference between a two digit number and the number obtained by interchanging the digits of the number is 54. What is the difference between the two digits of that number?**

- a) 6                                    b) 7  
c) 8                                    d) 9

**173. The sum of the digits of a two digit number is 5. When the digits are reversed the number 9 is reduced. Then what will be the converted number?**

- a) 32                                  b) 23  
c) 41                                  d) 14

**174. Find the difference between the place and face value of '5' in the number 3675149**

- a) 5000                              b) 4995  
c) 495                                d) 4990

**175. What is the place value of 8 in 634785?**

- a) 8                                    b) 80  
c) 800                                d) 80000

**176. What is the sum of the face value and place value of 6 in the number 206743?**

- a) 6749                              b) 12743  
c) 6006                              d) 12

**177. What is the difference between the place values of two 3's in 935071360?**

- a) 29999700                      b) 29999701  
c) 2999600                        d) 29999400

**178. Calculate the sum of face value and place value of 7 in 3728456?**

- a) 700007                              b) 0  
c) 7                                    d) 700000

**179. What is the face value of 4 in 145.390?**

- a) 40000                              b) 4  
c) 140000                            d) 45

**180. Find the difference between the place value and face value of 9 in 229301.**

- a) 9292                                b) 8991  
c) 0                                    d) 220

**181. What is the difference between the place value and face value of 3 in the number 273965?**

- a) 2035                                b) 3962  
c) 3997                                d) 0

**182. The difference between the place values of '4' and '2' in the number 833749502 is:**

- a) 49998                              b) 30098  
c) 39098                              d) 39998

**183. Solve :**

$$1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots$$

- a) 2                                    b)  $\frac{1}{50}$   
c) 3                                    d)  $\frac{1}{22}$

**184. In a group at a school picnic,  $\frac{2}{9}$ th were adults and the number of children was 95 more than that of adults. How many children were present there?**

- a) 95                                    b) 133  
c) 190                                d) 103

**185. Find the value of  $52 - |8 - 20| =$ .**

- a) 45                                    b) 40  
c) 65                                    d) 64

**186. If the weight of a dozen apples is 1.8 kg, then how many apples will be there in 3 boxes whose combined weight is 23.25 kg?**

- a) 280                                  b) 155  
c) 465                                  d) 215

**187. Select the set which is made up of factors of 36.**

- a) (2, 3, 4, 6, 9) (b) (2, 3, 4, 6)  
c) (2, 3, 4, 6, 9, 12, 18) d) (2, 3, 4, 6, 9, 12)

**188. The difference of two numbers is 5. If their product is 336, then find the sum of both the numbers.**

- a) 21                                      b) 37
- c) 28                                      d) 51

**189. The square of a number is 3 more than twice the same number. What is that possible number?**

- a) 1 or 3                                      b) 1 to -3
- c) -1 to -3                                      d) -1 to 3

**190. What will be the value of subtracting 64.37 from 1000.03 and adding the result to the sum of 3.4 and 7.56?**

- a) 948.62                                      b) 944.62
- c) 945.62                                      d) 946.62

**191. Seema received ₹ 50 from her father from which she bought toffee worth ₹ 15. Her mother gave ₹ 30 but her brother took ₹ 42 from her. How much money is left with him?**

- a) ₹ 23                                      b) ₹ 24
- c) ₹ 20                                      d) ₹ 25

**192. Geeta's weight is 11.235 kg. Is. His sister's weight is 1.4 times his weight. Find the total weight of both.**

- a) 15.729 kg                                      b) 25.964 kg
- c) 26.964 kg                                      d) 28.964kg

# WIFI PUBLICATION

## ANSWER KEY

Que	Ans	Que	Ans	Que	Ans	Que	Ans	Que	Ans	Que	Ans
1	B	36	A	71	D	106	B	141	C	176	C
2	A	37	A	72	B	107	D	142	D	177	A
3	A	38	A	73	B	108	D	143	B	178	A
4	D	39	D	74	C	109	D	144	B	179	B
5	A	40	C	75	B	110	A	145	C	180	B
6	D	41	C	76	D	111	A	146	C	181	C
7	D	42	D	77	C	112	B	147	B	182	D
8	D	43	C	78	D	113	C	148	C	183	A
9	C	44	B	79	B	114	A	149	B	184	B
10	D	45	C	80	C	115	C	150	A	185	B
11	C	46	C	81	D	116	A	151	D	186	B
12	A	47	C	82	D	117	D	152	B	187	C
13	A	48	A	83	B	118	C	153	D	188	B
14	B	49	A	84	D	119	A	154	C	189	D
15	C	50	D	85	D	120	C	155	D	190	D
16	A	51	B	86	C	121	C	156	A	191	A
17	C	52	D	87	D	122	A	157	C	192	C
18	C	53	C	88	C	123	B	158	D		
19	C	54	C	89	B	124	B	159	C		
20	D	55	C	90	B	125	B	160	B		
21	C	56	D	91	C	126	B	161	D		
22	A	57	D	92	C	127	D	162	B		
23	D	58	C	93	C	128	B	163	D		
24	B	59	D	94	B	129	B	164	B		
25	C	60	B	95	B	130	B	165	B		
26	C	61	B	96	B	131	C	166	B		
27	A	62	A	97	C	132	A	167	D		
28	C	63	A	98	B	133	B	168	D		
29	A	64	B	99	D	134	C	169	B		
30	A	65	A	100	B	135	A	170	A		
31	B	66	D	101	D	136	C	171	B		
32	B	67	B	102	D	137	B	172	A		
33	C	68	A	103	D	138	C	173	B		
34	A	69	B	104	A	139	C	174	B		
35	C	70	D	105	B	140	C	175	B		

## 2.

## DECIMAL FRACTIONS

1. Find the largest fraction among the following.  $\frac{5}{6}$ ,  $\frac{6}{11}$ ,  $\frac{2}{3}$ ,  $\frac{8}{9}$ ,  $\frac{6}{7}$

- a)  $\frac{2}{3}$                                       b)  $\frac{8}{9}$
- c)  $\frac{5}{6}$                                       d)  $\frac{6}{7}$

2. Find the difference between the largest and smallest fractions among  $\frac{2}{3}$ ,  $\frac{3}{4}$ ,  $\frac{4}{5}$  and  $\frac{5}{6}$ .

- a)  $\frac{3}{5}$                                       b)  $\frac{1}{7}$
- c)  $\frac{1}{6}$                                       d)  $\frac{2}{5}$

3. Which of the following is the largest?

- a)  $\frac{15}{16}$                                       b)  $\frac{24}{25}$
- c)  $\frac{34}{35}$                                       d)  $\frac{19}{20}$

4. Find the largest fraction among the following.  $\frac{5}{11}$ ,  $\frac{3}{15}$ ,  $\frac{12}{11}$ ,  $\frac{4}{7}$ ,  $\frac{9}{12}$

- a)  $\frac{12}{11}$                                       b)  $\frac{3}{15}$
- c)  $\frac{9}{12}$                                       d)  $\frac{4}{7}$

5. Which of the following is the smallest fraction number?  $\frac{1}{10}$ ,  $\frac{1}{100}$ ,  $\frac{9}{1000}$ ,  $\frac{500}{10000}$

- a)  $\frac{500}{10000}$                                       b)  $\frac{1}{100}$
- c)  $\frac{1}{10}$                                       d)  $\frac{9}{1000}$

6. Which of the following fractions is the largest?

- a)  $\frac{8}{19}$                                       b)  $\frac{9}{22}$
- c)  $\frac{10}{23}$                                       d)  $\frac{11}{24}$

7. Arrange the following ratios in descending order, which number will be last? 11:14, 17:21, 5:7, 2:3

- a) 17:21                                      b) 5:7
- c) 2:3                                      d) 11:14

8. Which of the following fractions is the largest?  $\frac{1}{8}$ ,  $\frac{2}{12}$ ,  $\frac{3}{16}$ ,  $\frac{4}{20}$

- a)  $\frac{3}{16}$                                       b)  $\frac{4}{20}$
- c)  $\frac{1}{8}$                                       d)  $\frac{2}{12}$

9. Which of the following is the largest fraction?  $\frac{3}{15}$ ,  $\frac{5}{20}$ ,  $\frac{8}{64}$ ,  $\frac{25}{1000}$

- a)  $\frac{5}{20}$                                       b)  $\frac{8}{64}$
- c)  $\frac{3}{15}$                                       d)  $\frac{25}{1000}$

10. Which of the following fractions is the smallest?  $\frac{4}{9}$ ,  $\frac{5}{4}$ ,  $\frac{3}{8}$ ,  $\frac{6}{7}$

- a)  $\frac{3}{8}$                                       b)  $\frac{4}{9}$
- c)  $\frac{6}{7}$                                       d)  $\frac{5}{4}$

11. Which of the following fractions is the largest?

- a)  $\frac{29}{77}$                                       b)  $\frac{2}{21}$
- c)  $\frac{5}{14}$                                       d)  $\frac{25}{66}$

12. Which of the following is the smallest fraction number?  $\frac{6}{11}$ ,  $\frac{13}{18}$ ,  $\frac{15}{22}$ ,  $\frac{19}{36}$ ,  $\frac{5}{6}$

- a)  $\frac{19}{36}$                                       b)  $\frac{13}{18}$
- c)  $\frac{6}{11}$                                       d)  $\frac{5}{6}$

13.  $\frac{8}{6}$ ,  $\frac{6}{4}$ ,  $\frac{5}{3}$ ,  $\frac{9}{5}$  is the largest fraction among the given fractions.

- a)  $\frac{5}{3}$                                       b)  $\frac{6}{4}$
- c)  $\frac{9}{5}$                                       d)  $\frac{8}{6}$

14. Which of the following is the smallest fraction?  $\frac{3}{15}$ ,  $\frac{5}{20}$ ,  $\frac{8}{14}$ ,  $\frac{25}{1000}$

- a)  $\frac{8}{64}$                                       b)  $\frac{25}{1000}$
- c)  $\frac{5}{20}$                                       d)  $\frac{3}{15}$

15. Which of the following is the lowest?  $\frac{3}{4}$ ,  $\frac{3}{5}$ ,  $\frac{3}{8}$ ,  $\frac{3}{11}$

- a)  $\frac{3}{4}$                                       b)  $\frac{3}{7}$
- c)  $\frac{3}{11}$                                       d)  $\frac{3}{8}$

16. Which of the following is the least common fraction?

- a)  $\frac{6}{5}$                                       b)  $\frac{4}{3}$
- c)  $\frac{3}{2}$                                       d)  $\frac{5}{4}$

17. Which of the following fractions is the largest?

- a)  $\frac{3}{4}$                                       b)  $\frac{4}{5}$
- c)  $\frac{5}{6}$                                       d)  $\frac{7}{8}$

18. What are the smallest fractions of  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{13}{16}$ ,  $\frac{7}{12}$ .

- a)  $\frac{5}{8}$                                       b)  $\frac{3}{4}$
- c)  $\frac{13}{16}$                                       d)  $\frac{7}{12}$

19. Which of the following is the smallest fraction?



- a)  $\frac{3}{4}$   
c)  $\frac{5}{6}$

- b)  $\frac{4}{5}$   
d)  $\frac{6}{7}$

20. Which of the following fractions is the smallest?

- a)  $\frac{3}{5}$   
c)  $\frac{2}{3}$

- b)  $\frac{5}{6}$   
d)  $\frac{4}{5}$

21. Which one of the following numerators is different?

- a)  $\frac{91}{15}$   
c)  $\frac{105}{112}$

- b)  $\frac{79}{26}$   
d)  $\frac{41}{17}$

22. Arrange the following fractions in descending order.  
 $\frac{5}{6}, \frac{3}{7}, \frac{8}{9}, \frac{3}{14}$

- a)  $\frac{8}{9}, \frac{5}{6}, \frac{3}{7}, \frac{3}{14}$   
c)  $\frac{5}{6}, \frac{8}{9}, \frac{3}{7}, \frac{3}{14}$

- b)  $\frac{8}{9}, \frac{3}{14}, \frac{3}{7}, \frac{5}{6}$   
d)  $\frac{3}{7}, \frac{8}{9}, \frac{5}{6}, \frac{3}{14}$

23. Which of the following fractions are in descending order?

- a)  $\frac{5}{8}, \frac{7}{12}, \frac{3}{4}, \frac{13}{16}$   
c)  $\frac{5}{8}, \frac{7}{12}, \frac{13}{16}, \frac{3}{4}$

- b)  $\frac{7}{12}, \frac{13}{16}, \frac{3}{4}, \frac{5}{8}$   
d)  $\frac{13}{16}, \frac{3}{4}, \frac{5}{8}, \frac{7}{12}$

24. Which of the following is in ascending order?

- a) 0.65, 0.76, 0.67, 0.86,  
c) 0.65, 0.67, 0.76, 0.86

- b) 0.65, 0.86, 0.67, 0.76  
d) 0.67, 0.65, 0.76, 0.86

25. Which of the following is true for the given numbers?

- a)  $\frac{25}{27}$   
c)  $\frac{13}{33}$

- b)  $\frac{32}{47}$   
d)  $\frac{20}{47}$

26. Which of the following is in descending order?

- a)  $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{1}{2}$   
c)  $\frac{4}{5}, \frac{3}{4}, \frac{2}{3}, \frac{1}{2}$

- b)  $\frac{3}{4}, \frac{4}{5}, \frac{1}{2}, \frac{2}{3}$   
d)  $\frac{4}{5}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$

27. Which of the given numbers is in the correct ascending order?

- a)  $\frac{5}{6}, \frac{3}{5}, \frac{7}{9}$   
c)  $\frac{3}{5}, \frac{7}{9}, \frac{5}{6}$

- b)  $\frac{3}{5}, \frac{5}{6}, \frac{7}{9}$   
d)  $\frac{7}{9}, \frac{3}{5}, \frac{5}{6}$

28. Find the value of  $\sqrt{2}$  up to eight decimal places.

- a) 1.41421356  
c) 1.41421346

- b) 1.41421354  
d) 1.41421366

29. Which is the correct ascending order of the given numbers?

- a)  $\frac{1}{3}, \frac{4}{15}, 0.33$   
c)  $\frac{4}{15}, 0.33, \frac{1}{3}$

- b)  $\frac{1}{3}, 0.33, \frac{4}{15}$   
d)  $0.33, \frac{4}{15}, \frac{1}{3}$

30. The correct ascending order of the given numbers is –

- a)  $\frac{3}{10}, \frac{9}{15}, \frac{1}{3}$

- b)  $\frac{4}{15}, \frac{1}{3}, \frac{1}{10}$

- c)  $\frac{1}{3}, \frac{3}{10}, \frac{4}{15}$

- d)  $\frac{4}{15}, \frac{3}{10}, \frac{1}{3}$

31. Which of the following is correct for the given numbers?

- a)  $\frac{32}{67}$   
c)  $\frac{22}{55}$

- b)  $\frac{45}{81}$   
d)  $\frac{12}{43}$

32. Which of the following is correct for the given numbers?

- a)  $\frac{25}{51}$   
c)  $\frac{12}{19}$

- b)  $\frac{47}{63}$   
d)  $\frac{63}{79}$

33. Which of the following is correct for the given numbers?

- a)  $\frac{13}{21}$   
c)  $\frac{52}{94}$

- b)  $\frac{57}{97}$   
d)  $\frac{36}{79}$

34. Which of the following is correct for the given numbers?

- a)  $\frac{3}{8}$   
c)  $\frac{17}{39}$

- b)  $\frac{19}{73}$   
d)  $\frac{29}{47}$

35. Which of the following is in ascending order?

- a)  $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{1}{2}$   
c)  $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}$

- b)  $\frac{3}{3}, \frac{4}{5}, \frac{1}{2}, \frac{2}{3}$   
d)  $\frac{4}{5}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$

36. Arrange the given fractions in their correct descending order –

- a)  $\frac{7}{9}, \frac{11}{47}, \frac{5}{13}, \frac{24}{29}$   
c)  $\frac{11}{47}, \frac{5}{13}, \frac{7}{9}, \frac{24}{29}$

- b)  $\frac{24}{29}, \frac{11}{47}, \frac{7}{9}, \frac{5}{13}$   
d)  $\frac{24}{29}, \frac{7}{9}, \frac{5}{13}, \frac{11}{47}$

37. Which of the following is in ascending order?

- a)  $\frac{2}{3}, \frac{5}{6}, \frac{3}{4}$   
c)  $\frac{2}{3}, \frac{3}{4}, \frac{5}{6}$

- b)  $\frac{3}{4}, \frac{2}{3}, \frac{5}{6}$   
d)  $\frac{5}{6}, \frac{3}{4}, \frac{2}{3}$

38. Which of the following ascending order is correct for the given numbers?

- a)  $\frac{1}{3}, \frac{1}{5}, \frac{2}{5}$   
c)  $\frac{1}{5}, \frac{1}{3}, \frac{2}{5}$

- b)  $\frac{1}{3}, \frac{2}{5}, \frac{1}{5}$   
d)  $\frac{1}{5}, \frac{2}{5}, \frac{1}{3}$

39. Which of the given numbers is in the correct ascending order?

- a)  $\frac{5}{8}, \frac{19}{24}, \frac{11}{16}$   
c)  $\frac{5}{8}, \frac{11}{16}, \frac{19}{24}$

- b)  $\frac{11}{16}, \frac{5}{8}, \frac{19}{24}$   
d)  $\frac{19}{24}, \frac{11}{16}, \frac{5}{8}$

40. Which of the following is correct for the given numbers?

- a)  $\frac{32}{67}$   
c)  $\frac{23}{53}$

- b)  $\frac{45}{81}$   
d)  $\frac{13}{41}$

**41. Arrange the following different numbers in ascending order:**

- a)  $11/17$                       b)  $41/63$   
c)  $3/7$                          d)  $21/29$

**42. Which of the following ascending order is correct for the given numbers?**

- a)  $1/3, 0.3, 2/8$                       b)  $0.3, 1/3, 2/8$   
c)  $2/8, 0.3, 1/3$                       d)  $1/3, 2/8, 0.3$

**43. What is the correct ascending order of the following numbers?  $3/4, 17/24, 2/3$**

- a)  $17/24, 3/4, 2/3$                       b)  $3/4, 2/3, 17/24$   
c)  $2/3, 3/4, 17/24$                       d)  $2/3, 17/24, 3/4$

**44. Which of the given numbers is in the correct ascending order?**

- a)  $3/7, 0.3, 2/7$                       b)  $0.3, 2/7, 3/7$   
c)  $2/7, 0.3, 3/7$                       d)  $2/7, 3/7, 0.3$

**45. Which of the given numbers is in the correct ascending order?**

- a)  $1/2, 2/3, 7/12$                       b)  $7/12, 2/3, 1/2$   
c)  $1/2, 7/12, 2/3$                       d)  $2/3, 1/2, 7/12$

**46. Which of the given numbers is in the correct ascending order?**

- a)  $1/3, 3/4, 5/8$                       b)  $5/8, 3/4, 1/3$   
c)  $1/3, 5/8, 3/4$                       d)  $3/4, 1/3, 5/8$

**47. What is the correct ascending order for the given fractions?**

- a)  $22/7, 13/17, 11/19, 2/3$                       b)  $11/19, 2/3, 13/17, 22/7$   
c)  $2/3, 11/19, 13/17, 22/7$                       d)  $2/3, 13/17, 11/19, 22/7$

**48. Write the given fractions in correct ascending order?**

- a)  $3/7, 15/41, 19/35, 7/11$                       b)  $15/41, 3/7, 19/35, 7/11$   
c)  $3/7, 15/41, 7/11, 19/35$                       d)  $19/35, 7/11, 15/41, 3/7$

**49. Which of the given numbers is in the correct ascending order?**

- a)  $5/6, 11/12, 8/9$                       b)  $8/9, 5/6, 11/12$   
c)  $5/6, 8/9, 11/12$                       d)  $11/12, 8/9, 5/6$

**50. Which of the following is the terminating decimal?**

- a)  $1/32$                               b)  $1/24$   
c)  $1/96$                               d)  $1/48$

**51. Which of the following numbers will have quiet decimal expansion?**

- a)  $57/120$                               b)  $47/150$   
c)  $61/110$                               d)  $43/140$

**52. The value of which of the following numbers will be a quiet decimal?**

- a)  $9/45$                                 b)  $6/45$   
c)  $3/45$                                 d)  $12/45$

**53. Which of the following will give terminating decimal?**

- a)  $12/72$                                 b)  $6/72$   
c)  $9/72$                                 d)  $3/72$

**54. The value of which of the following fractions will not come in repeating decimal?**

- a)  $20/56$                                 b)  $25/56$   
c)  $10/56$                                 d)  $21/56$

**55. Which of the following options is an example of recurring decimal?**

- a)  $24/60$                                 b)  $24/90$   
c)  $24/120$                                 d)  $24/30$

**56. Which of the following ordinary fractions, when written in decimal form, will not get its value in neat decimal form?**

- a)  $27/480$                                 b)  $21/640$   
c)  $81/450$                                 d)  $240/450$

**57. Which of the following fractions will have a terminating decimal?**

- a)  $6/144$                                 b)  $12/144$   
c)  $3/144$                                 d)  $9/144$

**58. Which of the following is a cool decimal expansion?**

- a)  $1/6$                                     b)  $17/25$   
c)  $10/3$                                 d)  $1/11$

**59. Which of the following will give recurring decimals?**

- a)  $21/30$                                 b)  $21/120$   
c)  $21/60$                                 d)  $21/90$

**60. The value of which of the following will be obtained in decimal form?**

- a)  $3/36$                                 b)  $12/36$   
c)  $9/36$                                 d)  $6/36$

61. Which of the following fractions will not give repeating decimals?

- a)  $\frac{8}{56}$                       b)  $\frac{6}{56}$   
c)  $\frac{4}{56}$                         d)  $\frac{7}{56}$

62. do the Evolution :

$0.\overline{623}$

- a)  $\frac{623}{999}$                       b)  $\frac{23}{999}$   
c)  $\frac{617}{990}$                       d)  $\frac{23}{990}$

63. Find the value of  $0.1\overline{8}$ .

- a)  $\frac{27}{90}$                         b)  $\frac{17}{90}$   
c)  $\frac{17}{100}$                       d)  $\frac{18}{100}$

64. What is the correct expression of  $0.06\overline{54}$ ? The ( ) sign indicates consecutive decimal.

- a)  $\frac{18}{275}$                       b)  $\frac{18}{277}$   
c)  $\frac{654}{1000}$                       d)  $\frac{654}{1000}$

65.  $0.04\overline{7619}$ , when written as an ordinary fraction, is equal to-

- a)  $\frac{1}{21}$                         b)  $\frac{1}{19}$   
c)  $\frac{1}{23}$                         d)  $\frac{1}{17}$

66. Convert  $0.\overline{6}$  to a fraction:

- a)  $\frac{6}{3}$                         b)  $\frac{2}{3}$   
c)  $\frac{2}{6}$                         d)  $\frac{4}{3}$

67. Which of these fractions will not result in a recurring decimal?

- a)  $\frac{10}{30}$                       b)  $\frac{12}{30}$   
c)  $\frac{14}{30}$                       d)  $\frac{8}{30}$

68. Which of the following ordinary fractions, when written as a decimal, will not terminate?

- a)  $\frac{81}{150}$                       b)  $\frac{80}{150}$   
c)  $\frac{15}{48}$                         d)  $\frac{21}{600}$

69. What will be the simple fraction obtained by writing  $0.02\overline{36}$  in its simplest form?

- a)  $\frac{13}{1100}$                       b)  $\frac{13}{9999}$   
c)  $\frac{13}{3300}$                       d)  $\frac{13}{550}$

70. Express  $\frac{7}{11}$  in decimal form.

- a)  $0.\overline{623}$                       b)  $0.\overline{633}$   
c)  $0.\overline{63}$                       d)  $0.\overline{62}$

71. Represent  $0.08\overline{36}$  as least common fraction.

- a)  $\frac{46}{555}$                       b)  $\frac{23}{1100}$   
c)  $\frac{23}{275}$                       d)  $\frac{828}{9900}$

72. What will  $\frac{1}{450}$  be equal to when written as a repeating decimal?

- a) 0.2                        b) 0.02  
c) 0.002                      d) 0.0002

73. What will be the value of  $0.09\overline{87}$  as the smallest ordinary fraction?

- a)  $\frac{163}{1650}$                       b)  $\frac{329}{9990}$   
c)  $\frac{326}{3300}$                       d)  $\frac{163}{1665}$

74. Which of the following fractions will give repeating decimals?

- a)  $\frac{27}{60}$                         b)  $\frac{27}{72}$   
c)  $\frac{27}{48}$                         d)  $\frac{27}{84}$

75. If the ordinary fraction of  $0.\overline{41}$  is given

- by  $\frac{999 \dots 9 (n \text{ times})}{41}$  then find the value of n?  
a) 1                        b) 3  
c) 4                        d) 2

76. Which of the following is equivalent to  $0.5\overline{6}$ ? ( ' ' represents decimal repetition)

- a)  $\frac{56}{100}$                       b)  $\frac{56}{1000}$   
c)  $\frac{56}{99}$                         d)  $\frac{560}{90}$

77. What is the correct expression of  $1.4\overline{27}$  (Bar Repeating decimal)?

- a)  $\frac{1427}{1000}$                       b)  $\frac{157}{110}$   
c)  $\frac{1427}{10000}$                       d)  $\frac{157}{111}$

78. The correct expression of  $0.01\overline{8}$  is:

- a)  $\frac{1}{55}$                         b)  $\frac{18}{100}$   
c)  $\frac{18}{1000}$                       d)  $\frac{1}{66}$

79. The correct expression of  $0.\overline{0234} = ?$  is-

- a) 13/555                      b) 34/100  
c) 134/990                    d) 234/1000

80. What is the correct expression of  $2.\overline{56}$  ? (-) Bar indicates continuing decimal)

- a)  $2\frac{560}{90}$                       b)  $2\frac{56}{99}$   
c)  $2\frac{56}{1000}$                     d)  $2\frac{56}{100}$

81. What is the correct expression of  $0.02\overline{36}$  ?

- a) 13/550                      b) 236/1000  
c) 36/1000                    d) 13/555

82.  $0.126\overline{36} = ?$

- a) 139/1100                    b) 140/1200  
c) 139/2200                    d) 126/1000

83. How can  $73/8$  be written in decimal system?

- a) 9.5                          b) 9.125  
c) 8.15                        d) 8.125

84. Express  $\frac{44}{5}\% + \frac{4}{5}\% + \frac{0.4}{5}\%$  as a decimal number.

- a) 0.0888                      b) 0.0998  
c) 0.0896                      d) 0.0968

85. Which of the following fractions cannot be further simplified?  $14/21$ ,  $33/43$ ,  $18/24$ ,  $41/82$

- a)  $33/43$                       b)  $92/24$   
c)  $18/24$                       d)  $41/82$

86. Express  $368/575$  in lowest terms.

- a)  $28/29$                       b)  $30/25$   
c)  $25/29$                       d)  $16/25$

87. Which of the following fractions is equivalent to  $18/25$ ?

- a)  $72/100$                       b)  $36/75$   
c)  $54/100$                       d)  $50/100$

88. Simplify:  $\frac{6}{27} \div \frac{27}{30} \div \frac{20}{81}$

- a) 9                              b) 6  
c) 3                              d) 1

89. What is  $\frac{0.3}{1000}$  equal to?

- a)  $3 \times 10^{-4}$                     b)  $3 \times 10^{-6}$   
c)  $3 \times 10^5$                     d)  $3 \times 10^{-5}$

90. Convert the fraction  $\frac{4}{9}$  to its simplest form.

- a)  $1/26$                         b)  $1/29$   
c)  $1/25$                         d)  $1/27$

91.  $1\frac{2}{3}$  is inversely proportional to:

- a)  $2\frac{2}{3}$                         b)  $3/5$   
c)  $3\frac{1}{2}$                         d)  $2/3$

92. The minimum fraction value of 4.025 will be equal to which of the following?

- a)  $161/40$                       b)  $116/20$   
c)  $161/20$                       d)  $116/40$

93. Which of the following fractions is not the same as  $4/11$ ?

- a)  $64/176$                       b)  $20/55$   
c)  $84/209$                       d)  $32/88$

94.  $2\frac{1}{25} = ?$

- a) 0.24                        b) 2.4  
c) 2.004                      d) 2.04

95. How many fractions of a day are 7 minutes 12 seconds?

- a)  $1/240$                         b)  $1/225$   
c)  $1/200$                         d)  $1/300$

96. Solve  $0.05 \times 0.4$ ?

- a) 2                              b) 0.2  
c) 0.02                        d) 0.002

97. What is the value of  $0.000825 \div 0.05$ ?

- a) 0.0165                      b) 0.65  
c) 0.00165                    d) 0.015

98. Convert 13/55 to a decimal.

- a) 0.2                              b) 0.236  
c) 0.245                        d) 0.257

99. What mixed fraction is  $414 \div 54$  written for?

- a)  $7\frac{36}{54}$                               b)  $7\frac{6}{9}$   
c)  $7\frac{2}{3}$                                 d)  $7\frac{1}{3}$

100. Simplify  $\left(\frac{2}{7} + \frac{3}{5}\right) \div \left(\frac{2}{5} + \frac{2}{7}\right)$ .

- a) 31/24                              b) 24/31  
c) 26/25                              d) 12/13

101. Simplify :  $\frac{3}{7\frac{1}{3}} + \frac{3}{3\frac{1}{7}}$

- a)  $1\frac{3}{11}$                                 b)  $1\frac{4}{11}$   
c)  $2\frac{3}{7}$                                 d)  $2\frac{4}{7}$

102. Simplify :  $8\frac{1}{3} \times 4\frac{1}{5} \div 5\frac{1}{4}$

- a)  $4\frac{2}{5}$                                 b)  $5\frac{3}{4}$   
c)  $7\frac{1}{3}$                                 d)  $6\frac{2}{3}$

103. Choose the one that is completely different from the following. 15/20, 48/60, 21/28, 75/100

- a) 15/20                              b) 48/60  
c) 21/28                              d) 75/100

104. Find the solution of  $4/11 + 2/7 + 3/5 -$

- a) 37/35                              b) 481/385  
c) 13/35                              d) 37/385

105. Simplify  $\frac{5}{28} \div \frac{28}{35} \div \frac{20}{112}$ .

- a) 4/5                                b) 5/4  
c) 4/7                                d) 7/4

106. Simplify  $\frac{4}{28} \div \frac{28}{35} \div \frac{20}{112}$ .

- a) 7                                    b) 4  
c) 2                                    d) 1

107. Which of the following fractions is not equal to 9/17?

- a) 108/221                              b) 27/51  
c) 63/119                              d) 153/189

108. The simplest form of 182/130 is-

- a) 28/20                              b) 91/65  
c) 14/10                              d) 7/5

109. How many kilometers are there in one meter?

- a) 0.0001                              b) 0.1  
c) 0.001                              d) 0.01

110. What is the sum of 5/12 and 12/5?

- a) 17/17                              b) 17/60  
c) 60/17                              d) 169/60

111. The sum of a fraction and its reciprocal is  $2\frac{25}{66}$ . The larger of the two numbers is-

- a)  $1\frac{15}{22}$                               b)  $1\frac{5}{6}$   
c)  $1\frac{20}{33}$                               d)  $1\frac{5}{11}$

112. Sum of 5/11 and 11/5-

- a) 146/55                              b) 16/16  
c) 16/55                              d) 110/55

113. The difference between a positive fraction and its

reciprocal is  $6\frac{39}{160}$ . Which is the fraction under consideration?

- a)  $32/5$                       b)  $13/8$   
c)  $15/8$                       d)  $16/5$

114. The difference between a fraction and its reciprocal is  $9/11$ . Then what will be the difference of the cubes of both the fraction and its reciprocal?

- a)  $\frac{1331}{2538}$                       b)  $\frac{2538}{1331}$   
c)  $\frac{3996}{1331}$                       d)  $\frac{729}{1331}$

115. The sum of a fraction and its reciprocal is  $5\frac{1}{5}$ . Find the fraction.

- a)  $1/5$                       b)  $1/6$   
c)  $1/3$                       d)  $4$

116. How much should be added to  $4/5$  to get  $5/4$ ?

- a)  $1/-1$                       b)  $16/20$   
c)  $9/20$                       d)  $1.25/0.8$

117. Sum of  $5/8$  and  $8/5$ -

- a)  $13/13$                       b)  $80/40$   
c)  $13/40$                       d)  $89/40$



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## ANSWER KEY

Que	Ans	Que	Ans	Que	Ans	Que	Ans
1	B	31	D	61	D	91	B
2	C	32	A	62	C	92	A
3	C	33	D	63	B	93	C
4	A	34	B	64	A	94	D
5	D	35	C	65	A	95	C
6	D	36	D	66	B	96	C
7	C	37	C	67	B	97	A
8	B	38	C	68	B	98	B
9	A	39	C	69	D	99	C
10	A	40	D	70	C	100	A
11	B	41	C	71	C	101	B
12	A	42	C	72	C	102	D
13	C	43	D	73	C	103	B
14	B	44	C	74	D	104	C
15	C	45	C	75	D	105	B
16	A	46	C	76	C	106	D
17	D	47	B	77	B	107	A
18	D	48	B	78	A	108	D
19	A	49	C	79	A	109	C
20	A	50	A	80	B	110	D
21	C	51	A	81	A	111	B
22	A	52	A	82	A	112	A
23	D	53	C	83	B	113	A
24	C	54	D	84	D	114	C
25	C	55	B	85	A	115	A
26	C	56	D	86	D	116	C
27	C	57	D	87	A	117	D
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