

14. Find the number of factors of 5400 which are perfect cube?
a) 4 b) 6 c) 10 d) 8
15. Find the no of divisors of 19404 excluding 1 and the no itself?
a) 54 b) 53 c) 52 d) 50
16. In how many ways can 2744 be resolved as a product of 2 factors?
a) 16 b) 8 c) 12 d) 4
17. The number of ways in which 1296 can be expressed as a product of 2 distinct factors and product of 2 factors respectively is -
a) 25, 25 b) 13, 12 c) 12, 13 d) 15, 10
18. What is the smallest number that should be multiplied with 840 to make it a perfect square and 2940 to make it a perfect cube respectively?
a) 200, 3100 b) 210, 3150 c) 210, 3250 d) None
19. What is the smallest number that should be multiplied with 3600 to make it a perfect square?
a) 1 b) 6 c) 10 d) 2
20. What is the smallest number that should be multiplied with 3600 to make it a perfect cube?
a) 60 b) 6 c) 10 d) 8
21. Express 0.81818181..... in form of a fraction?
a) 9/11 b) 6/11 c) 10/11 d) 8/11
22. Express 0.27777777..... in form of a fraction?
a) 5/18 b) 6/17 c) 7/18 d) 8/18
23. Express 0.279797979..... in form of a fraction?
a) 277/990 b) 377/990 c) 277/999 d) 377/999
24. Express 1. 116161616..... in form of a fraction?
a) 223/198 b) 367/330 c) 62/55 d) 221/198

25. Which of the following is a prime number?
a) 851 b) 589 c) 429 d) 307
26. Which of the following is not a prime number?
a) 113 b) 181 c) 223 d) 161
27. Find the value of $50+51+52+53+\dots\dots\dots+99$
a) 3627 b) 8510 c) 3725 d) 3075
28. What is the sum of first 80 natural numbers?
a) 3140 b) 3240 c) 3340 d) 3440
29. What is the sum of the squares of first 20 even natural numbers?
a) 9480 b) 10480 c) 11480 d) 12480
30. A wants to type first 1000 natural numbers on a desktop. How many times should he press the buttons of the computer key board?
a) 2893 b) 2987 c) 3000 d) 2500
31. A printer numbers the pages of a book starting with 1 and uses 3089 digits in all. How many pages does the book have?
a) 1040 b) 1048 c) 1049 d) 1050
32. One sheet is torn from a book, in which both sides of the sheet have page numbers, starting from page number 1. The sum of the numbers on the remaining pages is 195. The sheet that is removed contains which of the following page numbers?
a) 5, 6 b) 7, 8 c) 9, 10 d) 11, 12
33. If $6896x45$ is divisible by 9 then x is,
a) 4 b) 5 c) 6 d) 7
34. If $481A769B$ is divisible by 5, 6 and 9 then $A+B$ is -
a) 0 b) 1 c) 2 d) 3
35. An 8 digit number $4252746B$ leaves a remainder 0 when divided by 3. How many values are possible for B?
a) 2 b) 3 c) 4 d) 6

36. What is the remainder when the 100 digit number starting with 1, writing the consecutive natural numbers next to it, is divided by 5?
 a) 1 b) 2 c) 4 d) 0
37. If the 8 digit number $5668x25y$ is divisible by 48, find the least value of $x + y$?
 a) 10 b) 9 c) 8 d) 7
38. The value of $0.057057057057\dots$ is ,
 a) $57/99$ b) $57/999$ c) $57/990$ d) $57/909$
39. The value of $0.1254545454\dots$ is (that is 0.12**54**)
 a) $1242/(9900)$ b) $621/(2950)$ c) $207/(1650)$ d) $69/(550)$
40. The fraction equivalent of the recurring decimal representation $1.27272727\dots$ is,
 a) $13/11$ b) $14/11$ c) $127/99$ d) $137/99$
41. Find the number of factors 1225?
 a) 5 b) 6 c) 8 d) 9
42. In how many ways 3420 can be written as product of 2 factors?
 a) 12 b) 14 c) 18 d) 36
43. Find the number of odd & even number of factors respectively of 1680?
 a) 8, 32 b) 8, 9 c) 10, 9 d) none
44. Find the number of factors of 243243 which are multiples of 21?
 a) 20 b) 23 c) 25 d) none
45. Find the sum of all the factors of 120?
 a) 240 b) 280 c) 360 d) 400
46. Find the smallest four digit number which when increased by 3 is divisible by 4,5 & 6?
 a) 1090 b) 1027 c) 1017 d) 1005

47. Which smallest natural number should be added to 5312468 to make the result divisible by 11?
a) 6 b) 4 c) 8 d) 2
48. Which number amongst the following is divisible by 15 & 24?
a) 4680 b) 3630 c) 2460 d) 5460
49. Which number among the following is divisible by 144?
a) 23764 b) 428888 c) 195320 d) 66528
50. Which of the following is a prime number?
a) 1567893 b) 89394811 c) 96314283 d) None of these
51. A person belonging to a charitable organization had some money with him. The amount available with him could be divided equally among 7 or 9 or 11 people. Find the least amount in rupees he must have had, if it was a four digit number?
a) 1212 b) 1386 c) 1425 (d) 1584
52. If the number 23576X is divisible by 36, Find value of the digit denoted as X?
a) 8 b) 6 c) 4 d) 0
53. Let N be a natural number. If N^2 is divisible by 8, then which of the following is true
(a) N is always divisible by 4
(b) N is always divisible by 8
(c) N is always divisible by 16.
(d) N is always divisible by 64.
54. Let "A" be a three digit number with digits "abc" that are distinct. Let "B" be another number "cba" formed by reversing the digits of A. Then the highest number, that divides, the absolute difference of A & B is,
a) 96 b) 99 c) 11 d) 98

55. How many numbers from 300 to 500 (both inclusive) are divisible by 4?

a) 52

b) 49

c) 50

d) 51