

Playing with Numbers

<1M>

1. The twin prime numbers out of the following are:

- (A) 2,4 (B) 3,5 (C) 7,11 (D) 13,17

2. In the following which pair of numbers is co-prime?

- (A) (2,4) (B) (2,3) (C) (3,9) (D) (4,16)

3. Which number is a multiple of 11?

- (A) 122 (B) 132 (C) 110 (D) (2) and (3) both

4. The least number which when divided by 9, 12, 16, 30 leaves a remainder of 3 in each case is

- (A) 720 (B) 723 (C) 823 (D) 750

5. Which of the following number is divisible by 11 ?

- (A) 3,116,365 (B) 901,351 (C) 8,790,322 (D) None of these

6. The prime factors of 24 are

- (A) $2 \times 3 \times 4$ (B) $2 \times 2 \times 2 \times 3$ (C) 6×4 (D) 8×3

7. What least value should be given to * so that the number $653*47$ is divisible by 11 ?

- (A) 9 (B) 6 (C) 2 (D) 1

8. The sum of the prime numbers between 90 and 100 is

- (A) 188 (B) 281 (C) 376 (D) 97

9. A prime number

- (A) has exactly one factor (B) has exactly two factors
(C) is not divisible by 2 (D) is an odd number

10. Least prime number is

- (A) 1 (B) 0 (C) 2 (D) 3

11. A prime number is

- (A) an even number (B) an odd number
(C) a composite number (D) None of these

12. The smallest number of 4- digits exactly divisible by 12, 15, 20 and 35 is

- (A) 1000 (B) 1160 (C) 1260 (D) None of these

13. Successor of every even number is

- (A) Even (B) Prime (C) Odd (D) None

14. Prime factors of 140 are

- (A) $2 \times 2 \times 7$ (B) $2 \times 2 \times 5$ (C) $2 \times 2 \times 5 \times 7$ (D) $2 \times 2 \times 5 \times 7 \times 3$

- 15.HCF of two co- prime number is
(A) 1 (B) 0 (C) 2 (D) None of these
- 16.HCF of 36 and 144 is
(A) 36 (B) 144 (C) 4 (D) 2
- 17.An example for twin primes is
(A) 5, 11 (B) 3, 5 (C) 11, 17 (D) 3, 7
- 18.LCM of 36 and 72 is
(A) 36 (B) 72 (C) 108 (D) 2
- 19.The number which is neither prime nor composite is
(A) 0 (B) 1 (C) 2 (D) 5
- 20.The numbers which have more than two factors are called
(A) Even (B) Prime (C) Composite (D) None of these
- 21.The numbers which are not multiple of 2 are called
(A) Even (B) Odd (C) Prime (D) Composite
- 22.The two numbers which have only 1 as their common factor are called
(A) Co-primes (B) Twin prime (C) Composite (D) None of these
- 23.How many prime numbers are there between 10 to 20 ?
(A) 5 (B) 7 (C) 4 (D) 3
- 24.Which of the following numbers is not a multiple of 8 ?
(A) 64 (B) 4 (C) 16 (D) 80
- 25.Which number is not a factor of 18 ?
(A) 5 (B) 3 (C) 2 (D) 6
- 26.The Number which is a factor of every number is
(A) 0 (B) 1 (C) itself (D) both 1 & 0
- 27.The smallest 5-digits number, which is exactly divisible by 9,15,18, is:
(A) 999 (B) 9990 (C) 99989 (D) 9995
- 28.Predecessor of every even number is:
(A) Prime number (B) Odd number (C) Both (D) None
- 29.Greatest 4-digit number which is divisible by 4,6,12 is.....
(A) 9997 (B) 9996 (C) 9998 (D) 9995
- 30.1 is a/an.....
(A) Integer (B) Irrational number (C) Natural number (D) None

31. The sum of all prime numbers between 10 to 25 is..
(A) 84 (B) 86 (C) 85 (D) 83
32. The smallest prime number is _____
33. The number 1 is neither _____ nor _____
34. The H.C.F of two prime numbers is _____
35. Are (11, 13) twin- prime Numbers?
36. 34 can be expressed as the sum of two prime no's _____ and _____
37. are (49, 51) Co-prime Numbers
38. Find the least common multiple of 6 and 8
39. The Number which is a factor of every number
40. The numbers which have more than two factors are called
41. The numbers which are not multiple of 2 are called _____
42. The two numbers which have only 1 as their common factor are called _____
43. Which is the greatest prime number out of the following?
(A) 2 (B) 3 (C) 91 (D) 97
44. Which of the following number is divisible by 6?
(A) 12930 (B) 12935 (C) 12933 (D) 12934
45. Which of the following number is divisible by 9?
(A) 2952 (B) 2953 (C) 2954 (D) 2950
46. The definition of composite number.
(A) A number, which has more than two factors, is called a composite number.
(B) A number, which has exactly two factors, is called a composite number.
(C) Both (a) and (b)
(D) None
47. First three odd numbers are and first three even number are.....
(A) 1, 3, 5 and 2, 4, 6 (B) 0, 1, 2 and 0, 2, 4
(C) 2, 3, 5 and 4, 6, 7 (D) 2, 4, 6 and 1, 3, 5
48. The H.C.F of 9 and 27:
(A) 9 (B) 3 (C) 2 (D) 27
49. Every number is a multiple of
(A) 0 (B) 1 (C) -1 (D) none

50. The prime numbers between 0 to 20 are:

- (A) 2,3,5,7,11,13,17,18 (B) 2,3,5,7,11,13,17,20
(C) 2,3,4,5,6,7,8,9,10,11 (D) 2,3,5,7,11,13,17,19

51. The prime factors of 36 are

- (A) $2 \times 3 \times 4 \times 7$ (B) $2 \times 2 \times 3 \times 3$ (C) $2 \times 5 \times 6 \times 7$ (D) $1 \times 2 \times 3 \times 4$

52. If 21 divided by 3 then we have quotient

- (A) prime number (B) even number (C) integer (D) 0

53. Successor of every odd number is:

- (A) Odd (B) Even (C) Irrational (D) Integer

54. The numbers which are multiple of 2 are called

- (A) Odd number (B) Even number (C) Integers (D) None

55. Which number is not factor of 9?

- (A) 5 (B) 3 (C) 1 (D) None

56. Predecessor of 8 is:

- (A) An even number (B) An odd number
(C) A prime number (D) Both an odd and a prime number

57. All the factors of 25 are:

- (A) 1, 5, 25 (B) 1, 5, 15 (C) 1, 5, 20 (D) 1, 2, 4

58. The H.C.F of 35, 42 and 77 is.....

- (A) 7 (B) 6 (C) 5 (D) 2

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59. Find the pair of numbers which are co-prime and twin-prime.

- (a) (41, 43) (b) (49, 51)

60. Find the prime factors of 96.

61. Find the first five multiples of 7.

62. Find all possible factors of 64.

63. Which of the following numbers are prime

- (i) 89 (ii) 127

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64. Without doing actual division, check the divisibility of 376948 with 11.

65. Find the first three common multiples of 6 and 8

66. Find the H.C.F of 96, 128

67. Find the divisibility of the number 390612 by 3 and 9 .

68. Find the L.C.M of 112, 160 and 188 by division method

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69. Check whether 438750 is divisible by 2, 4, 5, 8, 10. Give Reasons.

70. Find the least five-digit number, which leaves remainder 9 in each case when divided by 20, 40, 75

71. The length, breadth and height of a hall are 3675 cm, 2100 cm and 1050 cm respectively. What can be the maximum length of a tape with which we can measure the length, breadth and height of the hall?

72. Find the smallest number of 4 digits which is divisible by 6, 8, 9