Quantitative Aptitude Practice questions on Number Systems

- Factors:

1. The sum of the factors of a number is 124. What is the number?

A. Number lies between 40 and 50

B. Number lies between 50 and 60

C. Number lies between 60 and 80

D. More than one such number exists

2. How many factors of 1080 are perfect squares?

A. 4

B. 6

C. 8

D. 5

3. How many factors of 25

* 36

* 52 are perfect squares?

A. 18

B. 24

C. 36

D. 8

4. How many factors of 24

* 53

* 74 are odd numbers?

A. 100

B. 99

C. 20

D. 24

5. How many factors of the number 28

* 36

* 54

* 105 are multiples of 120?

A. 540

B. 660

C. 594

D. 792

6. Number N = 26

* 55

* 76

* 107

; how many factors of N are even numbers?

A. 1183

B. 1200

C. 1050

D. 840

7. Numbers A, B, C and D have 16, 28, 30 and 27 factors. Which of these could be a perfect cube?

A. A and B

B. B and C

C. A, B and C

D. B and D

8. If a three digit number ‘abc’ has 3 factors, how many factors does the 6-digit number ‘abcabc’ have?

A. 16 factors

B. 24 factors

C. 16 or 24 factors

D. 20 factors

9. How many numbers are there less than 100 that cannot be written as a multiple of a perfect square greater than 1?

A. 61

B. 56

C. 52

D. 65

10. Find the smallest number that has exactly 18 factors.

A. 180

B. 216

C. 240

D. None of these

11. A number N2 has 15 factors. How many factors can N have?

A. 5 or 7 factors

B. 6 or 8 factors

C. 4 or 6 factors

D. 9 or 8 factors

12. If a three digit number ‘abc’ has 2 factors (where a, b, c are digits), how many factors does the 6-digit number ‘abcabc’ have?

A. 16

B. 24

C. 18

D. 30

Answer Key –

Q.No. 1 2 3 4 5 6 7 8 9 10 11 12.

Ans. (D) (A) (B) (C) (C) (A) (A) (C) (A) (A) (B) (A)