

Fundamentals of Number Theory

Number Theory · Practice Test · 18 Questions

1. What is the smallest prime number?

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

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

- A) 10
- B) 20
- C) 25
- D) 30

3. What is the greatest common divisor (GCD) of 8 and 12?

- A) 2
- B) 4
- C) 6
- D) 8

4. Which of these numbers is a composite number?

- A) 7
- B) 9
- C) 11
- D) 13

5. What is the sum of the first three positive odd integers?

- A) 6
- B) 8
- C) 9
- D) 12

6. A number is divisible by 5 if its last digit is:

- A) 0 or 5
- B) 1 or 5
- C) Only 5
- D) Even

7. What is the product of 0 and any integer?

- A) 1
- B) 0
- C) The integer itself
- D) Undefined

8. Which of the following is a pair of twin primes?

- A) 2 and 3
- B) 3 and 5
- C) 7 and 9
- D) 8 and 10

9. What is the value of 2 raised to the power of 3?

- A) 5
- B) 6
- C) 8
- D) 9

10. Which of the following is an irrational number?

- A) $1/2$
- B) 0.333...
- C) π
- D) 4

11. What is the smallest positive integer?

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

12. How many factors does the number 7 have?

- A) 1
- B) 2
- C) 3
- D) 4

13. What is the result of 15 modulo 4?

- A) 1
- B) 2
- C) 3
- D) 4

14. Which number is neither prime nor composite?

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

15. What is the Least Common Multiple (LCM) of 3 and 5?

- A) 8
- B) 10
- C) 15
- D) 20

16. What type of number is 13?

- A) Even
- B) Composite
- C) Prime
- D) Square

17. Which of the following is a multiple of 9?

- A) 19
- B) 27
- C) 39
- D) 49

18. What is the value of the square root of 64?

- A) 6
- B) 7
- C) 8
- D) 9