

Fundamentals of Number Theory

Number Theory · Practice Test · 10 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) 12
- B) 24
- C) 36
- D) 48

3. What is the Greatest Common Divisor (GCD) of 12 and 18?

- A) 2
- B) 3
- C) 6
- D) 9

4. Which of these numbers is a composite number?

- A) 7
- B) 11
- C) 13
- D) 15

5. What is the result of 15 modulo 4?

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

6. Which of the following is an even prime number?

- A) 0
- B) 2
- C) 4
- D) 8

7. What is the prime factorization of 10?

- A) 2×5
- B) 1×10
- C) $2 + 8$
- D) $2 \times 2 \times 2$

8. Which number is neither prime nor composite?

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

9. What is the Least Common Multiple (LCM) of 4 and 6?

- A) 2
- B) 10
- C) 12
- D) 24

10. How many factors does the number 7 have?

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