

Introduction to Number Theory Basics

Mathematics · Answer Key · 8 Questions

1. A whole number greater than 1 that has exactly two distinct positive divisors: 1 and itself, is called a...?

- A) Composite number
- B) Prime number**
- C) Even number
- D) Odd number

2. A whole number greater than 1 that has more than two distinct positive divisors is called a...?

- A) Prime number
- B) Composite number**
- C) Integer
- D) Rational number

3. What is the smallest positive prime number?

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

4. Any integer that is divisible by 2 with no remainder is known as an...?

- A) Odd number
- B) Prime number
- C) Even number**
- D) Composite number

5. What are the numbers that divide a given integer exactly, leaving no remainder?

- A) Multiples
- B) Quotients
- C) Factors**
- D) Primes

6. A number that is the product of a given number and some other integer is called a...?

- A) Factor
- B) Divisor
- C) Multiple**
- D) Remainder

7. The process of expressing a composite number as a product of its prime factors is called...?

A) Integer factorization

B) Prime factorization

C) Factor tree

D) Composite decomposition

8. What is the largest positive integer that divides two or more integers without leaving a remainder?

A) Least Common Multiple

B) Greatest Common Divisor

C) Prime Factor

D) Quotient