

# PRIME NUMBERS, COMPOSITE NUMBERS AND CO-PRIME NUMBERS

## **PRIME NUMBERS:**

A prime number is a NATURAL number greater than 1 that has only two factors (divisors): 1 and itself. Here's a more detailed explanation:

### **> Prime Numbers:**

- Examples: 2, 3, 5, 7, 11, 13, 17, 19, 23.....
- They are only divisible by 1 and the number itself.
- The number 1 is neither a prime nor a composite.
- The number 2 is the only even prime number.

## **COMPOSITE NUMBERS:**

A composite number is a natural number greater than 1 that has more than two factors.

### **> Composite Numbers:**

- Examples: 4, 6, 8, 9, 10, 12, 14, 15...
- They have more than two factors (including 1 and the number itself).

- For example, 6 is composite because it's divisible by 1, 2, 3, and 6.
- Every natural number greater than 1 is either prime or composite.

### **CO-PRIME NUMBERS:**

Always a pair of numbers compared. Two numbers are said to be prime if they have no common factor other than 1 which means the HCF is 1.

- Co-prime does not mean both numbers are prime.
- Two consecutive numbers are always prime

Eg: 9 and 10

99 and 100

11 and 12