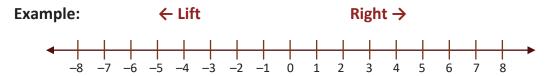
# **Patterns of Numbers on the Number**

A number line is a straight line with numbers placed at equal distances. It helps in understanding number patterns, addition, subtraction, and comparing numbers easily.



Here, negative numbers are on the left, positive numbers are on the right, and zero (0) is in the middle.

## 1. Skip Counting on a Number Line

Skip counting is jumping numbers by a fixed step on a number line.

## **Example:**

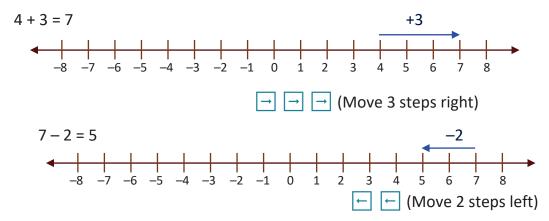
- Skip counting by 2: 0, 2, 4, 6, 8, 10, ...
- Skip counting by 5: 0, 5, 10, 15, 20, ...

Trick: If you skip count by a number, you get its multiples!

## 2. Addition and Subtraction on a Number Line

- Addition: Move right on the number line.
- Subtraction: Move left on the number line.

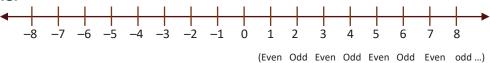
## **Example:**



#### 3. Even and Odd Numbers on the Number Line

- Even numbers (0, 2, 4, 6, 8, ...) appear at equal intervals.
- Odd numbers (1, 3, 5, 7, 9, ...) appear between even numbers.





## 4. Prime and Composite Numbers on the Number Line

- **Prime Numbers** (2, 3, 5, 7, 11, ...) appear irregularly.
- Composite Numbers (4, 6, 8, 9, 10, ...) are more frequent.

## **Example:**



(P = Prime, C = Composite)

## 5. Patterns in Multiplication on a Number Line

- **Multiples of 3:** 3, 6, 9, 12, 15, ... (Move in jumps of 3)
- Multiples of 4: 4, 8, 12, 16, 20, ... (Move in jumps of 4)

## **Example (Multiples of 5 on a Number Line)**



Trick: Multiples always form regular gaps on the number line!