# Even and Odd Numbers

## **Understanding Notes**

- Numbers are divided into two types: even numbers and odd numbers
- An even number ends in 0, 2, 4, 6, or 8
- An odd number ends in 1, 3, 5, 7, or 9
- Even numbers can be divided into 2 equal parts without any remainder
- Odd numbers cannot be divided into 2 equal parts evenly
- 0 is an even number
- The pattern of even and odd numbers helps in counting and grouping

#### **Example: (Easy – Identifying even number)**

- 18 ends in 8
- 8 is an even digit

Answer = 18 is an even number

# **Example: (Easy – Identifying odd number)**

- 33 ends in 3
- 3 is an odd digit

Answer = 33 is an odd number

#### **Example: (Moderate – Sorting numbers)**

- Given numbers: 21, 14, 37, 42, 19
- Even numbers = 14, 42
- Odd numbers = 21, 37, 19

#### **Example: (Moderate – Using even and odd in patterns)**

- 246810
- This is a pattern of even numbers
  Next even number = 12
- 13579
- This is a pattern of odd numbers

Next odd number = 11

# Example: (Moderate – Add and check)

- Add 5 + 6 = 11
- Since 11 ends in 1, it is odd
  Answer = The sum is odd
- Add 8 + 4 = 12
- 12 ends in 2, so it is even

**Answer** = The sum is even

# **Summary Points**

- Even numbers end in 0, 2, 4, 6, or 8.
- Odd numbers end in 1, 3, 5, 7, or 9.
- Even numbers are divisible by 2 equally.
- Odd numbers are not divisible by 2 equally.
- Patterns of even and odd numbers help in better number understanding.