



## Pattern of Addition in Even Numbers

### Introduction

- Even numbers are numbers that end in 0, 2, 4, 6, or 8 and are divisible by 2.
- Examples of even numbers are 2, 4, 6, 8, 10, 12, and so on.
- When we add even numbers in a sequence, we get a special pattern.
- The result of adding even numbers forms a pattern of increasing numbers.
- Understanding this pattern helps in mental math and number sense.

### Examples with Solutions

**Example:**  $2 + 4 = ?$

✓ 2 and 4 are even numbers

✓  $2 + 4 = 6$

**Answer:** 6

**Example:**  $4 + 6 = ?$

✓ Add two even numbers

✓  $4 + 6 = 10$

**Answer:** 10

**Example:** Add first three even numbers:  $2 + 4 + 6$

✓  $2 + 4 = 6$

✓  $6 + 6 = 12$

**Answer:** 12

**Example:** Find the sum of four even numbers:  $2 + 4 + 6 + 8$

✓  $2 + 4 = 6,$

✓  $6 + 6 = 12,$

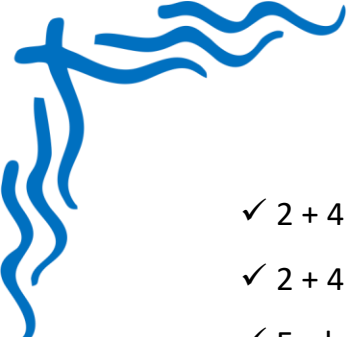
✓  $12 + 8 = 20$

**Answer:** 20

**Example:** Observe the pattern:

✓  $2 = 2$

✓  $2 + 4 = 6$



✓  $2 + 4 + 6 = 12$

✓  $2 + 4 + 6 + 8 = 20$

✓ Each time we add the next even number, the sum increases in a pattern

**Answer:** The sum increases by 4, 6, 8...

### Summary Points

- Even numbers are divisible by 2 and end with 0, 2, 4, 6, or 8.
- Adding even numbers gives an increasing number pattern.
- Patterns help in predicting the next total without adding each number separately.
- Recognizing these patterns improves number skills and speed in solving sums.
- These patterns are useful in multiplication and mental arithmetic.