

**Example 1.**  $11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20 = 31 \times 5 = 155$

The diagram illustrates the pairing of terms in the arithmetic series  $11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20$ . Brackets are drawn below the terms to show that the first term (11) is paired with the last term (20), the second term (12) with the second-to-last term (19), the third term (13) with the third-to-last term (18), the fourth term (14) with the fourth-to-last term (17), and the fifth term (15) with the fifth-to-last term (16). This visualizes the formula for the sum of an arithmetic series, where the sum is equal to the number of terms multiplied by the average of the first and last terms.

**Example 2.**  $1 + 3 + 5 + \cdots + 95 + 97 + 99 = 100 \times 25 = 2500$

The diagram illustrates the pairing of terms in the arithmetic series  $1 + 3 + 5 + \cdots + 95 + 97 + 99$ . Brackets are drawn below the terms to show that the first term (1) is paired with the last term (99), and the second term (3) is paired with the second-to-last term (97). This visualizes the formula for the sum of an arithmetic series, where the sum is equal to the number of terms multiplied by the average of the first and last terms.