

$$a_n = a_{n-1} + d \qquad a_n = a_1 + d(n-1)$$

*Where:*

$d$  = The "common difference"

*Example of an arithmetic sequence:*

$-7, -3, 1, 5, 9, 13, 17, 21, 25 \dots$

$$A_n = a_1 + a_2 + \dots + a_n$$

$$A_n = \frac{n}{2} (a_1 + a_n)$$