Arithmetic Sequences

Arithmetic Sequence: a sequence where every term after the first is obtained by adding a constant called the common difference

Common difference: the constant difference *d* between any two consecutive terms

To find any term in an arithmetic sequence, use

$$a_n = a_1 + (n-1)d$$

To find *d*, use

$$d = \frac{a_n - a_k}{n - k}$$