

CHAPTER 05

Arithmetic Progressions

Arithmetic progression (A.P):

An arithmetic progression is a list of numbers in which each term is obtained by adding a fixed number to the preceding term except the first term.

Example:

- 2, 5, 8, 11..... is an A.P, because each term is 3 more than the term preceding it.
- 3, 7, 10, 15, 24..... is not an A.P, because its terms cannot be obtained by adding a fixed number to the preceding term.

Use of arithmetic progression:

In our day – to – day life, we come across pattern like A.P.

Example:

Uma applied for a job and got selected. She has been offered a job with a starting monthly salary of Rs. 9000, with an annual increment of Rs. 500. Then we can calculate the salary using the concept of A.P.

Here, her salary (In rupees) for 1st, 2nd, 3rd Years will be 9000, 9500, 10,000 respectively.

Similarly, we may use the knowledge of A.P in solving many other daily life problems.

