



Chapter.1
ARITHMETIC SEQUENCES



A JOINT VENTURE OF DIET PALAKKAD AND SSK PALAKKAD



INTER BELL
INTERVENTION BASED ON EFFECTIVE LEISURE LEARNING

1. Write an arithmetic sequence with common difference 3. find its 11th term ?
2. Find the missing term of the given arithmetic sequences
 - a) 18, 26, __, __
 - b) 12, __, 20, __
 - c) __, 8, __, __
 - d) __, 6, __, 16
- 3) Consider the arithmetic sequence 12, 23, 34,.....
 - a) write algebraic form of this sequence
 - b) Find 10th term ?
- 4) Consider the arithmetic sequence 5, 9, 13,.....
 - a) write next two term
 - b) Is 2012 a term of this sequence ? Why ?
- 5)
 - a) write the algebraic expression of the sequence 9, 15, 21....
 - b) Find the position of 195 is this sequence?



- 6) Write down an arithmetic sequence with common difference 4. Can the difference of any two terms of this sequence be 2016 ?
- 7) The algebraic form of an arithmetic sequence is $6n + 5$.
- Write the sequence ?
 - Find 15th term?
- 8) 8th term of an arithmetic sequence is 53 and 15th term is 102.
- Find the Common difference ?
 - Find 25th term of this sequence?
- 9)
 - The sum of natural numbers from 1 to 50
 - What is the sum of First 20 natural numbers?
- 10) Find the sum of first 25 term of the arithmetic sequence 5, 8, 11,-----
- 11)
 - Find the sum of first 25 counting numbers ?
 - Find the sum of first 25 even numbers ?
 - Find the sum of first 25 odd numbers ?
- 12) Let the algebraic expression of an arithmetic sequence is $6n + 3$. Find the sum of first 20 terms of the sequence.
- 13) If the terms of the arithmetic sequence $\frac{2}{9}, \frac{3}{9}, \frac{4}{9}, \frac{5}{9}, \dots$ are represented as $x_1, x_2, x_3,$
- $x_1 + x_2 + x_3 + = \underline{\hspace{2cm}}$
 - $x_4 + x_5 + x_6 + = \underline{\hspace{2cm}}$
 - Find the sum of first 9 terms ?
 - What is the sum of first 300 terms ?



14) Observe the Pattern

3

7 11

15 19 23

27 31 35 39

.....

.....

A) Write next two lines

b) Find the first and last number in the 15th line?

15) The first term of an arithmetic sequence is 6 and the sum of the first 6 terms is 66.

a) What is the 6th term ?

b) What is the common difference ?

c) Write the first 6 terms of the sequence?