# WANDOOR GANITHAM – S.S.L.C STUDY MATERIAL 2021

### FOCUS AREA - EASY REVISION - ARITHMETIC SEQUENCES

- a) Write down the sequence of natural numbers ending in 1? b) Check whether the sequence obtained above is an arithmetic sequence or not? a) Write down the sequence of natural numbers ending in 3? b) Check whether the sequence obtained above is an arithmetic sequence or not? a) Write down the sequence of natural numbers ending in 2 or 7? b) Check whether the sequence obtained above is an arithmetic sequence or not? a) Write down the sequence of natural numbers ending in 3 or 8? b) Check whether the sequence obtained above is an arithmetic sequence or not? a) Write an arithmetic sequence of first term 5 and common difference 3? b) What is its 5<sup>th</sup> term? c) What is its algebraic form ? d)What is the remainder when each term of this sequence is divided by the common difference ? a) Write an arithmetic sequence of first term 8 and common difference 6? b) What is its 10<sup>th</sup> term? c) What is its algebraic form ? d)What is the remainder when each term of this sequence is divided by the common difference ? a) Write an arithmetic sequence of first term 2 and common difference 7 ? b) What is its 13th term?
  - d)What is the remainder when each term of this sequence is divided by the common
    - difference ?

c) What is its algebraic form ?

8	a) Write an arithmetic sequence of first term 4 and common difference 5?
	b) What is its 20 <sup>th</sup> term ?
	c) What is its algebraic form ?
	d)What is the remainder when each term of this sequence is divided by the common
	difference ?
9	Consider the arithmetic sequence 6, 10, 14,
	a) What is its common difference ?
	b) What is its 11 <sup>th</sup> term ?
	c) What is its algebraic form ?
	d) Find the position of 402 in this sequence ?
10	Consider the arithmetic sequence 9, 14, 19,
	a) What is its common difference ?
	b) What is its 15 <sup>th</sup> term ?
	c) What is its algebraic form ?
	d) Find the position of 104 in this sequence ?
11	Consider the arithmetic sequence 2 , 5 , 8 ,
	a) What is its common difference ?
	b) What is its 10 <sup>th</sup> term ?
	c) What is its algebraic form ?
	d) Find the position of 149 in this sequence ?
12	Consider the arithmetic sequence 5, 12, 19,
	a) What is its common difference ?
	b) What is its 12 <sup>th</sup> term ?
	c) What is its algebraic form ?
	d) Find the position of 208 in this sequence ?

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13	Algebraic form of an arithmetic sequence is 2 n + 1
	a) What is its common difference ?
	b) What is its first term ?
	c) What is its 20 <sup>th</sup> term ?
	d) What is the sum of first 20 terms of this sequence ?
	dy what is the sam of mist 20 terms of this sequence.
14	Algebraic form of an arithmetic sequence is 4 n + 3
	a) What is its common difference ?
	b) What is its first term ?
	c) What is its 10 <sup>th</sup> term ?
	d) What is the sum of first 10 terms of this sequence ?
	d) What is the sam of mist to terms of this sequence.
15	Algebraic form of an arithmetic sequence is 3 n + 2
	a) What is its common difference ?
	b) What is its first term ?
	c) What is its 11 <sup>th</sup> term ?
	d) What is its 21 <sup>st</sup> term ?
	e) What is the sum of first 21 terms of this sequence ?
	e) what is the sum of thist 21 terms of this sequence:
16	Algebraic form of an arithmetic sequence is 6n - 1
	a) What is its common difference ?
	b) What is its first term ?
	c) What is its 7 <sup>th</sup> term ?
	d) What is its 13 <sup>th</sup> term ?
	e) What is the sum of first 13 terms of this sequence ?

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	17	Algebraic form of an arithmetic sequence is 5n - 4
		a) What is its common difference ?
		b) What is its first term ?
		c) What is its 12 <sup>th</sup> term ?
		d) What is its 23 <sup>rd</sup> term ?
		e) What is the sum of first 23 terms of this sequence ?
	18	5 <sup>th</sup> term of an arithmetic sequence is 15 and its 9 <sup>th</sup> term is 27.
		a) What is its common difference ?
		b) What is its first term ?
		c) What is its algebraic form ?
		d) Find the position of 120 in this sequence ?
	19	8 <sup>th</sup> term of an arithmetic sequence is 32 and its 15 <sup>th</sup> term is 60.
		a) What is its common difference ?
		b) What is its first term ?
		c) What is its algebraic form ?
		d) Find the position of 160 in this sequence ?
	20	9 <sup>th</sup> term of an arithmetic sequence is 66 and its 12 <sup>th</sup> term is 87.
		a) What is its common difference ?
		b) What is its first term ?
		c) What is its algebraic form ?
		d) Find the position of 73 in this sequence ?
	21	6 <sup>th</sup> term of an arithmetic sequence is 31 and its 12 <sup>th</sup> term is 61.
		a) What is its common difference ?
		b) What is its first term ?
		c) What is its algebraic form ?
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		d) Find the position of 201 in this sequence ?
	22	10 <sup>th</sup> term of an arithmetic sequence is 19 and its 16 <sup>th</sup> term is 31.
		a) What is its common difference ?
		b) What is its first term ?
		c) What is its algebraic form ?
		d) Find the position of 99 in this sequence ?
	23	Consider the arithmetic sequence 5, 8, 11
		a) What is its common difference ?
		b) Can the difference between any two terms of this sequence be 50? Why?
		d) Check whether 62 a term of this sequence ?
	24	Consider the arithmetic sequence 7 , 11 , 15
		a) What is its common difference ?
		b) Can the difference between any two terms of this sequence be 35? Why?
		d) Check whether 123 a term of this sequence ?
	25	Consider the arithmetic sequence 11 , 17 , 23
		a) What is its common difference ?
		b) Can the difference between any two terms of this sequence be 77 ? Why?
		d) Check whether 245 a term of this sequence ?
	26	Consider the arithmetic sequence 5,9,13,
		a) What is its common difference ?
		b) What is its 10 <sup>th</sup> term?
		d) Find the position of the term obtained by adding 40 to its 10 <sup>th</sup> term?
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27	Consider the arithmetic sequence 9, 15, 21,
	a) What is its common difference ?
	b ) What is its 12 <sup>th</sup> term ?
	d) Find the position of the term obtained by adding 66 to its 12 <sup>th</sup> term?
28	Consider the arithmetic sequence 3, 5, 7,
	a) What is its common difference ?
	b ) What is its 20 <sup>th</sup> term ?
	d) Find the position of the term obtained by subtracting 10 from its 20th term?
29	Consider the arithmetic sequence 10, 18, 26,
	a) What is its common difference ?
	b) What is its 15 <sup>th</sup> term?
	d) Find the position of the term obtained by subtracting 16 from its 15 <sup>th</sup> term?
30	Consider the sequence of two digit numbers which leave a remainder 1 on divisible
	by 2.
	a) What is its common difference ?
	b) Which is the smallest and largest number in this sequence?
	c) How many two digit numbers are there , which leave a remainder 1 on divisible by
	2 ?
	d) What is the sum of such numbers ?
31	Consider the sequence of two digit numbers which leave a remainder 2 on divisible
	by 5.
	a) What is its common difference ?
	b) Which is the smallest and largest number in this sequence ?
	c) How many two digit numbers are there , which leave a remainder 2 on divisible by
	5 ?
	d) What is the sum of such numbers ?

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	32	Consider the sequence of the three digit numbers that are $$ multiples of $$ 3 $$
		a) What is its common difference ?
		b) Which is the smallest and largest number in this sequence ?
		c) How many three digit numbers that are multiples of 3 ?
		d) What is the sum of such numbers ?
	33	Consider the sequence of two digit numbers which leave a remainder 1 on divisible
		by 4.
		a) What is its common difference ?
		b) Which is the smallest and largest number in this sequence?
		c) How many two digit numbers are there , which leave a remainder 1 on divisible by
		4 ?
		d) What is the sum of such numbers ?
ŀ	34	Consider the sequence of the two digit even numbers .
		a) What is its common difference ?
		b) Which is the smallest and largest number in this sequence ?
		c) How many two digit even numbers are there ?
		d) What is the sum of such numbers ?
	35	Consider the sequence of the three digit odd numbers .
		a) What is its common difference ?
		b) Which is the smallest and largest number in this sequence?
		c) How many three digit odd numbers are there ?
		d) What is the sum of such numbers ?

# 36 Find the following sums.

#### 37 Find the following sums.

### 38 Find the following sums.

# 39 Find the following sums.

#### 40 Find the following sums.

#### 41 Find the following sums.

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	<b>42</b>	Consider the arithmetic sequence 6, 10, 14,
		a) What is its common difference ?
		b) What is its 7 <sup>th</sup> term ?
		c) What is the sum of first 13 terms of this sequence ?
	43	Consider the arithmetic sequence 9, 14, 19,
		a) What is its common difference ?
		b) What is its 6 <sup>th</sup> term ?
		c) What is the sum of first 11 terms of this sequence ?
	44	Consider the arithmetic sequence 7, 13, 19,
		0a) What is its common difference ?
		b) What is its 11 <sup>th</sup> term ?
		c) What is the sum of first 21 terms of this sequence ?
	45	Consider the arithmetic sequence 1, 11, 21,
		a) What is its common difference ?
		b) What is its 14 <sup>th</sup> term ?
		c) What is the sum of first 27 terms of this sequence ?
	46	The first term of an arithmetic sequence is 8 and its common difference is $5$ .
		a) What is its 7 <sup>th</sup> term?
		b) What is the sum of first 13 terms of this sequence ?
	47	The first term of an arithmetic sequence is 9 and its common difference is 4.
		a) What is its 10 <sup>th</sup> term ?
		b) What is the sum of first 19 terms of this sequence ?

48	$8^{th}$ term of an arithmetic sequence is $25$ and its common difference is $3$ .
	a) What is its 9 <sup>th</sup> term?
	b) What is the sum of first 17 terms of this sequence ?
49	12 <sup>th</sup> term of an arithmetic sequence is 62 and its common difference is 5.
	a) What is its 13 <sup>th</sup> term?
	b) What is the sum of first 25 terms of this sequence ? z
50	$11^{ ext{th}}$ term of an arithmetic sequence is 78 and its common difference is 7 .
	a) What is its 10 <sup>th</sup> term?
	b) What is the sum of first 19 terms of this sequence ?
51	$7^{\text{th}}$ term of an arithmetic sequence is $55$ and its common difference is $8$ .
	a) What is its 6 <sup>th</sup> term?
	b) What is the sum of first 11 terms of this sequence ?
52	The algebraic form of an arithmetic sequence is $4 n + 3$ .
	a) What is its 10 <sup>th</sup> term ?
	b) What is the sum of first 19 terms of this sequence ?
53	The algebraic form of an arithmetic sequence is $7 n + 2$ .
	a) What is its 5 <sup>th</sup> term ?
	b) What is the sum of first 9 terms of this sequence ?
54	The algebraic form of an arithmetic sequence is 10 n - 5.
	a) What is its 6 <sup>th</sup> term ?
	b) What is the sum of first 11 terms of this sequence ?
55	The sum of first 5 terms of an arithmetic sequence is 30 and the sum of 9 terms is 90
	a) What is its 3 <sup>rd</sup> term?
	b) What is its 5 <sup>th</sup> term ?
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c) What is its common difference ? d) What is its first term ? e) What is its algebraic form ?  56 The sum of first 7 terms of an arithmetic sequence is 70 and the sum of 11 terms is 13 a ) What is its 4th term ? b) What is its 6th term ? c) What is its common difference ? d) What is its first term ? e) What is its algebraic form ?  57 The sum of first 3 terms of an arithmetic sequence is 27 and the sum of 13 terms is 377 . a ) What is its 2th term ? b) What is its 7th term ? c) What is its common difference ? d) What is its first term ? e) What is its algebraic form ?  58 The sum of first 5 terms of an arithmetic sequence is 65 and the sum of 6 terms is 9th a) What is its 3th algebraic form ? c) What is its 6th term ? c) What is its common difference ? d) What is its first term ? e) What is its first term ? e) What is its algebraic form ?		
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d) What is its first term ?		b) What is its 6 <sup>th</sup> term ?
		c) What is its common difference ?
e) What is its algebraic form ?		d) What is its first term ?
		e) What is its algebraic form ?

<b>59</b>	The sum of first 7 terms of an arithmetic sequence is 203 and the sum of 8 terms is
	264
	a ) What is its 4 <sup>th</sup> term ?
	b) What is its 8 <sup>th</sup> term ?
	c) What is its common difference ?
	d) What is its first term ?
	e) What is its algebraic form ?
60	The sum of first 9 terms of an arithmetic sequence is 99 and the sum of 10 terms is
	120 .
	a) What is its 5 <sup>th</sup> term?
	b) What is its 10 <sup>th</sup> term ?
	c) What is its common difference ?
	d) What is its first term ?
	e) What is its algebraic form ?
61	a) What is the common difference of the sequence 5,8,11,?
	b) What is the common difference of the sequence 7, 10, 13,?
	c) What is the difference between the fifth terms of the above sequences ?
	d) What is the difference between the sum of the first 5 terms of the above sequences?
62	a) What is the common difference of the sequence 6, 10, 14,
	b) What is the common difference of the sequence 9, 13, 17,
	c) What is the difference between the $9^{th}$ terms of the above sequences ?
	d) What is the difference between the sum of the first 9 terms of the above sequences?

63	a) What is the common difference of the sequence 5, 10, 15,
	b) What is the common difference of the sequence 9, 14, 19,
	c) What is the difference between the $11^{th}$ terms of the above sequences ?
	d) What is the difference between the sum of the first 11 terms of the above sequences
64	Look at the number pattern given below.
	1
	2 3
	4 5 6
	7 8 9 10
	a) Write down the next two more lines of this pattern?
	b) How many numbers are there in the 10 <sup>th</sup> line ?
	c) What is the last number in the 9 <sup>th</sup> line ?
	d) What are the first and last numbers in the 10 <sup>th</sup> line ?
65	Look at the number pattern given below.
	1
	2 3
	4 5 6
	7 8 9 10
	•••••••••••••••••••••••••••••••••••••••
	a) Write down the next two more lines of this pattern?
	b) How many numbers are there in the 20 <sup>th</sup> line ?
	c) What is the last number in the 19 <sup>th</sup> line ?
	d) What are the first and last numbers in the 20 <sup>th</sup> line ?

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66	Look at the number pattern given below.
	1
	2 3
	4 5 6
	7 8 9 10
	a) Write down the next two more lines of this pattern?
	b) How many numbers are there in the 15 <sup>h</sup> line ?
	c) What is the last number in the 14 <sup>th</sup> line ?
	d) What are the first and last numbers in the 15 <sup>th</sup> line ?
67	Look at the number pattern given below.
	1
	2 3 4
	5 6 7 8 9
	10 11 12 13 14 15 16
	a) a) Write down the next line of this pattern?
	b) Write the sequence of last numbers in each line of the pattern?
	c) What is the last number in the 9 <sup>th</sup> line?
	d) What are the first and last numbers in the 10 <sup>th</sup> line ?
	e) How many numbers are there in the 10 <sup>h</sup> line ?

68	Look at the number pattern given below.
	1
	2 3 4
	5 6 7 8 9
	10 11 12 13 14 15 16
	10 11 12 13 14 15 10
	a) Write down the next line of this pattern?
	b) Write the sequence of last numbers in each line of the pattern?
	c) What is the last number in the 11 <sup>th</sup> line ?
	d) What are the first and last numbers in the 12 <sup>th</sup> line?
	e) How many numbers are there in the 12 <sup>h</sup> line ?
	e) flow many numbers are there in the 12 line:
69	The sum of the $10^{th}$ and $11^{th}$ terms of an arithmetic sequence is $67$ .
	a) What is the sum of the first and 20 <sup>th</sup> terms of this sequence?
	b) What is the sum of first 20 terms of this sequence ?
70	The sum of the 8 <sup>th</sup> and 15 <sup>th</sup> terms of an arithmetic sequence is 44.
	a) What is the sum of the first and 22 <sup>tnd</sup> terms of this sequence?
	b) What is the sum of first 22terms of this sequence ?
71	The sum of the 11 <sup>th</sup> and 14 <sup>th</sup> terms of an arithmetic sequence is 75.
	a) What is the sum of the first and 24 <sup>th</sup> terms of this sequence?
	b) What is the sum of first 24 terms of this sequence ?
72	The sum of the $5^{th}$ and $13^{th}$ terms of an arithmetic sequence is $72$ .
	a) What is the sum of the first and $17^{th}$ terms of this sequence?

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	b) What is its 9 <sup>th</sup> term ?
	c) What is the sum of first 17 terms of this sequence?
73	The sum of the 7 <sup>th</sup> and 15 <sup>th</sup> terms of an arithmetic sequence is 44.
	a) What is the sum of the first and $21^{st}$ terms of this sequence?
	b) What is its 11 <sup>th</sup> term ?
	c) What is the sum of first 21 terms of this sequence?
74	The sum of the 11 <sup>th</sup> and 19 <sup>th</sup> terms of an arithmetic sequence is 66.
	a) What is the sum of the first and 29 <sup>th</sup> terms of this sequence?
	b) What is its 15 <sup>h</sup> term ?
	c) What is the sum of first 29 terms of this sequence?
75	The sum of first 30 terms of an arithmetic sequence is 930 .
	a) What is the sum of the first and 30 <sup>th</sup> terms of this sequence?
	b) What is the sum of the 15 <sup>th</sup> and 16 <sup>th</sup> terms of this sequence?
76	The sum of first 20 terms of an arithmetic sequence is 140.
	a) What is the sum of the first and 20 <sup>th</sup> terms of this sequence?
	b) What is the sum of the 10 <sup>th</sup> and 11 <sup>th</sup> terms of this sequence?