

	a) If we continue this process , how many dots are there in the fifth circle ?
	b)If we continue this process , what is the sequence of the dots in in each circle ?
	c) Check whether the sequence obtained above is an arithmetic sequence or not ?
4	In the figure some equilateral triangles are drawn . Length of the sides of them are also
	shown in the figure .
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	a) If we continue this process ,what will be the perimeter of the fifth triangle ?
	b) If we continue this process , what is the sequence of the perimeter of the triangles ?
	c) Check whether the sequence obtained above is an arithmetic sequence or not ?
5	a) Write the sequence of natural numbers which are multiplied by 3?
	b) Write the sequence of natural numbers which are multiplied by 3 and added to 1 ? c) Check whether the sequence obtained above is an arithmetic sequence or not ?
6	a) Write the sequence of natural numbers which are multiplied by 5 ?
	 b) Write the sequence of natural numbers which are multiplied by 5 and subtract 2 from them ? c) Check whether the sequence obtained above is an arithmetic sequence or not ?
7	a) Write down the sequence of natural numbers ending in 1?
	b) Check whether the sequence obtained above is an arithmetic sequence or not ?
8	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 ?
9	a) Write an arithmetic sequence of first term 7 and common difference 4 ?
	b) What is its 11 th term ?
	c) Can the difference between any two terms of this sequence be 100 ? Why ?
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10	a) Write an arithmetic sequence of first term 10 and common difference 6 ?
	b) What is its 8 th term ?
	c) Can the difference between any two terms of this sequence be 54 ? Why ?
11	a) Write an arithmetic sequence of common difference 5 ?
	b) What is its 9 th term ?
	c) Can the difference between any two terms of this sequence be 72 ? Why ?
12	a) Write an arithmetic sequence of common difference 10 ?
	b) What is its 10 th term ?
	c) Can the difference between any two terms of this sequence be 63 ? Why ?
13	Consider the arithmetic sequence 5,8,11,
	a) What is its common difference ?
	b) What is its 11 th term ?
	c) What is the remainder when each term of this sequence is divided by the common
	difference ?
	d) What is its algebraic form ?
14	Consider the arithmetic sequence 6, 10, 14,
	a) What is its common difference ?
	b) What is its 15 th term ?
	c) What is the remainder when each term of this sequence is divided by the common
	difference ?
	d) What is its algebraic form ?
15	Consider the arithmetic sequence 3, 10, 17,
	a) What is its common difference ?
	b) What is its 20 th term ?
	c) What is its algebraic form ?
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16 Consid	ler the arithmetic sequence 1,6,11,
a) Wh	at is its common difference ?
b) Wh	at is its 18 th term ?
c) W	hat is its algebraic form ?
17 The a	lgebraic form of an arithmetic sequence is 3 n + 2
a) Wh	nat is its common difference ?
b) Wł	nat is its first term ?
c) Wh	at is the remainder when each term of this sequence is divided by 3 ?
18 The a	lgebraic form of an arithmetic sequence is 5 n + 3
a) Wh	nat is its common difference ?
b) Wł	nat is its first term ?
c) Wh	at is the remainder when each term of this sequence is divided by 5 ?
19 The a	lgebraic form of an arithmetic sequence is 4 n - 1
a) Wh	nat is its common difference ?
b) Wh	at is its first term ?
c) Wh	at is the remainder when each term of this sequence is divided by 4 ?
20 The a	lgebraic form of an arithmetic sequence is 2n - 1
a) Wh	nat is its common difference ?
b) Wł	nat is its first term ?
c) Wh	at is the remainder when each term of this sequence is divided by 2?
21 Cons	sider the arithmetic sequence 5,9,13,
a) Wh	nat is its common difference ?
b) Wł	nat is its algebraic form ?
c) Fin	nd the position of 101 in this sequence ?
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22	Consider the arithmetic sequence 8, 13, 18,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 203 in this sequence ?
23	Consider the arithmetic sequence 4, 10, 16,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 58 in this sequence ?
24	Consider the arithmetic sequence 2 , 11 , 20 ,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 263 in this sequence ?
25	Consider the arithmetic sequence 3 , 10 , 17 ,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 136 in this sequence ?
26	Consider the arithmetic sequence 7 , 11 , 15,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 123 in this sequence ?
	d) Is 130 a term of this sequence ? Why ?
27	Consider the arithmetic sequence 9 , 14 , 19,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 154 in this sequence ?
	d) Is 170 a term of this sequence ? Why ?
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28	4 th term of an arithmetic sequence is 14 and its 9 th term is 29
	a) What is its common difference ?
	b) What is its first term ?
	c) Find the position of 62 in this sequence ?
29	5^{th} term of an arithmetic sequence is 31 and its 11^{th} term is 67
	a) What is its common difference ?
	b) What is its first term ?
	c) Find the position of 601 in this sequence ?
30	10^{th} term of an arithmetic sequence is 74 and its 20^{th} term is 154
	a) What is its common difference ?
	b) What is its first term ?
	c) Find the position of 474 in this sequence ?
31	8 th term of an arithmetic sequence is 29 and its 15 th term is 57
	a) What is its common difference ?
	b) What is its first term ?
	c) Find the position of 97 in this sequence ?
32	Consider the arithmetic sequence 4 , 7 , 10 ,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 16 in this sequence ?
	d) Check whether the square of any term is a term of this sequence or not ?
33	Consider the arithmetic sequence 7, 13, 19,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 49 in this sequence ?
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	d) Check whether the square of any term is a term of this sequence or not ?
34	Consider the arithmetic sequence 6, 11, 16,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of 36 in this sequence ?
	d) Check whether the square of any term is a term of this sequence or not ?
35	Consider the arithmetic sequence 3, 13, 23,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Write down the next three terms of this sequence ?
	d) Is there any perfect square term in this sequence ? Justify your answer ?
36	Consider the arithmetic sequence 7, 12, 17,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Write down the next three terms of this sequence ?
	d) Is there any perfect square term in this sequence ? Justify your answer ?
37	Consider the arithmetic sequence 70, 67, 64,
	a) What is its common difference ?
	b) What is the remainder when each positive term of this sequence is divided by 3 ?
	c) Which is the smallest positive number in this sequence ?
	d) Which is the largest negative number in this sequence ?
38	Consider the arithmetic sequence 92, 88, 84,
	a) What is its common difference ?
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	b) With st is the normalized and the east most time terms of their second section is divided by AD
	b) what is the remainder when each positive term of this sequence is divided by 4 ?
	c) Which is the smallest positive number in this sequence ?
	d) Which is the largest negative number in this sequence ?
39	Consider the arithmetic sequence 63, 58, 53,
	a) What is its common difference ?
	b) What is the remainder when each positive term of this sequence is divided by 5?
	c) Which is the smallest positive number in this sequence ?
	d) What is its algebraic form ?
	e) How many positive numbers are there in this sequence ?
40	Consider the arithmetic sequence 82 , 72 , 62 ,
	a) What is its common difference ?
	b) What is the remainder when each positive term of this sequence is divided by 10 ?
	c) Which is the smallest positive number in this sequence ?
	d) What is its algebraic form ?
	e) How many positive numbers are there in this sequence ?
41	Consider the arithmetic sequence 6, 10, 14,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of the term obtained by adding 40 to its 20 th term ?
42	Consider the arithmetic sequence 7, 10, 13,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of the term obtained by adding 27 to its 15 th term ?
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43	Consider the arithmetic sequence 8, 14, 20,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of the term obtained by subtracting 48 from its 40^{th} term ?
44	Consider the arithmetic sequence 3, 8, 13,
	a) What is its common difference ?
	b) What is its algebraic form ?
	c) Find the position of the term obtained by subtracting 100 from its 30 th term ?
45	Consider the sequence of two digit numbers which leave a remainder 1 on divisible
	by 3.
	a) What is its common difference ?
	b) Which is the smallest number in this sequence ?
	c) How many two digit numbers are there , which leave a remainder 1 on divisible by
	3?
46	Consider the sequence of three digit numbers which leave a remainder 1 on divisible
	<i>by</i> 5.
	a) What is its common difference ?
	b) Which is the smallest number in this sequence ?
	c) How many three digit numbers are there , which leave a remainder 1 on divisible by
	5 ?
47	Find the following sums .
	a) $1 + 2 + 3 + 4 + 5 + \ldots + 20$
	b) $2 + 4 + 6 + 8 + 10 + \ldots + 40$
	c) $5 + 7 + 9 + 11 + 13 + \ldots + 43$
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48	Find the following sums .
	a) $1 + 2 + 3 + 4 + 5 + \ldots + 40$
	b) $5 + 10 + 15 + 20 + 25 + \ldots + 200$
	c) 7 + 12 + 17 + 22 + 27 + + 202
49	Find the following sums .
	a) $1 + 2 + 3 + 4 + 5 + \ldots + 60$
	b) 4 + 8 + 12 + 16 + 20 + + 240
	c) 5 + 9 + 13 + 17 + 21 + + 241
	d) 9 + 17 + 25 + 33 + 41 + + 481
50	Find the following sums .
	a) $1 + 2 + 3 + 4 + 5 + \ldots + 100$
	b) $3 + 6 + 9 + 12 + 15 + \ldots + 300$
	c) $13 + 16 + 19 + 22 + 25 + \ldots + 310$
	d) $12 + 15 + 18 + 21 + 24 + \ldots + 309$
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