## ONLINE MATHS CLASS - X - 3 (21/06/2021)

## **1. ARITHMETIC SEQUENCE - CLASS 1**

## NUMBER PATTERNS

Natural numbers

First natural number = 1

Second natural number = 1 + 1 = 2

Third natural number = 2 + 1 = 3

Fourth natural number = 3 + 1 = 4

Fifth natural number =4 + 1 = 5

and so on .

1,2,3,4,5,...

Even numbers

The numbers got by multiplying natural numbers by 2 is called even numbers .

That is , multiples of 2 are known as even numbers .

First even number  $= 1 \times 2 = 2$ 

Second even number  $= 2 \times 2 = 4$ 

Third even number  $= 3 \times 2 = 6$ 

Fourth even number  $= 4 \times 2 = 8$ 

Fifth even number  $= 5 \times 2 = 10$ 

and so on .

2,4,6,8,10,...

## Odd numbers

The numbers got by removing even numbers from natural numbers are called odd

numbers.

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First odd number = 1

Second odd number = 3

Third odd number = 5

Fourth odd number = 7

Fifth odd number = 9

and so on .

1,3,5,7,9,...

Multiples of 5

The numbers got by multiplying natural numbers by 5 is called multiples of 5 First multiple of  $5 = 1 \times 5 = 5$ Second multiple of  $5 = 2 \times 5 = 10$ Third multiple of  $5 = 3 \times 5 = 15$ Fourth multiple of  $5 = 4 \times 5 = 20$ Fifth multiple of  $5 = 5 \times 5 = 25$ and so on . 5,10,15,20,25,... Natural numbers ending in 1 First number = 1 Second number = 11 Third number = 21 Fourth number = 31 Fifth number = 41 and so on . 1, 11, 21, 31, 41, ... SARATH AS, GHS ANCHACHAVADI, MALAPPURAM



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Length of a side	Perimeter	Area
1	$4 \times 1 = 4$	1 x 1 = 1
2	$4 \times 2 = 8$	$2 \times 2 = 4$
3	4 x 3 = 12	$3 \times 3 = 9$
4	4 x 4 = 16	$4 \times 4 = 16$

As the length of the sides go 1,2,3,4,...

the perimeters are 4, 8, 12, 16, ... (Multiples of 4 in order)

and the areas are 1,4,9,16,... (Perfect squares in order)

**Finding** 

We can make more number patterns using natural numbers .

**Conclusion** 

A set of numbers written as the first , second , third and so on , according to a particular

rule is called a Number sequence

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