



**Name :**

**Date :**

**Grade : VI**

**Worksheet**

**Submission Date :**

**Subject : Math**

**Parent's sign :**

## Number Patterns in Mathematics

1. Identify the patterns and write the next three numbers to complete the given patterns.
  - (a) 1, 3, 6, 10, 15, ....., ....., ....
  - (b) 1, 4, 9, 16, 25, ..., ..., ....
  - (c) 1, 8, 27, 64, 125, ..., ..., ....
2. What is 'Virahanka number'?
3. What is hexagonal number? Represent it pictorially
4. Complete the following number sequences:
  - (a)  $1 + 3 + 5 + \underline{\hspace{1cm}} + 9 + 11 = \underline{\hspace{1cm}}$ .
  - (b)  $1 + \underline{\hspace{1cm}} + 3 + 4 + 3 + 2 + 1 = \underline{\hspace{1cm}}$ .

5. Virahanka numbers are  
(a) 1,3,6, 10, 15... (b) 1,2, 3, 5, 8...(c) 1, 8, 27, 64, 125...(d) 1, 7, 19, 37...
6. If you start with the number 2 and keep adding 2, what sequence are you creating?  
(a) Even numbers (b) Prime numbers (c) Odd numbers (d) Square numbers
7. What is the next number in the sequence 1, 4, 9,16...?  
(a) 20 (b) 24 (c) 25 (d) 30
8. How many sides does a pentagon have?  
(a) 5 (b) 6 (c) 7 (d) 8
9. Hexagonal numbers are \_\_\_\_\_  
(a) 1, 3, 6, 10... (b)1, 4, 9, 16... (c) 1, 8, 27, 64 ..... (d) 1, 7, 19, 37
10. The sequence 1, 3, 6, 10, 15,... is called as  
(a) Squares (b) Counting Numbers  
(c) Triangular Numbers (d) Odd Numbers
11. The sequence of cubes is  
(a) 1,8,27,64,... (b) 1,4,9, 16,... (c) 2,4, 6, 8,... (d) 1,3, 5,7,
12. The sum of first five odd numbers is  
(a) 16 (b) 25 (c) 9 (d) 36
13. Which of the following is both a square number and a triangular number?  
(a) 9 (b) 16 (c) 25 (d) 36
14. What is the 5th term of the cube numbers sequence?  
(a) 125 (b) 64 (c) 36 (d) 100
15. Which number comes next in: 1, 3, 6, 10, 15?  
(a) 20 (b) 18 (c) 21 (d) 24
16. Which shape in regular polygons has 8 sides?  
(a) Octagon (b) Heptagon (c) Nonagon (d) Decagon