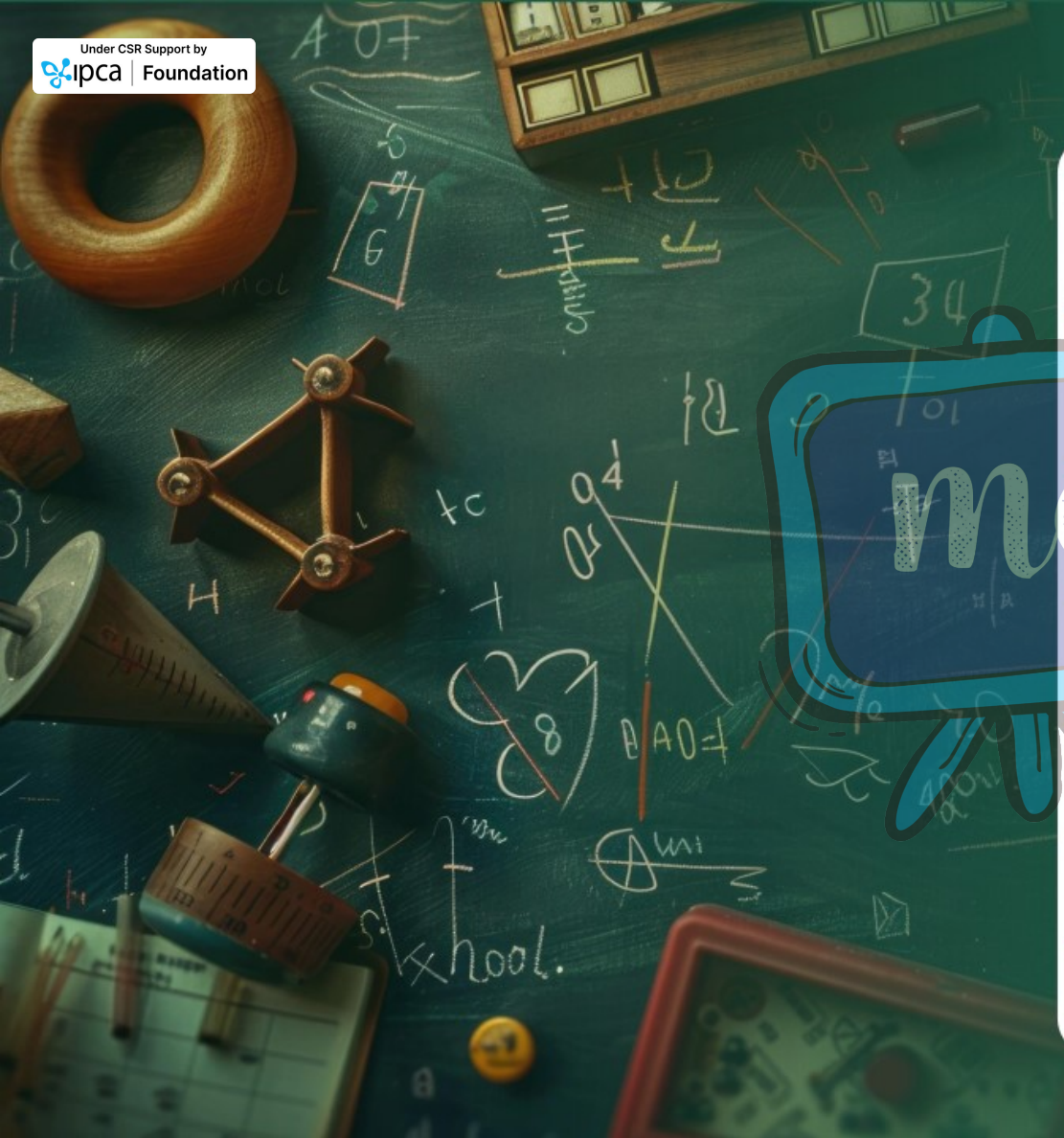
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# CLASS – 6

# MATHEMATICS

## Chapter – 1

## Patterns in Mathematics

Part – 15

Practice Question

Lavish Aggarwal

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# PRACTICE QUESTION

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1 What are virhānka numbers and triangular number and tell their sequences.

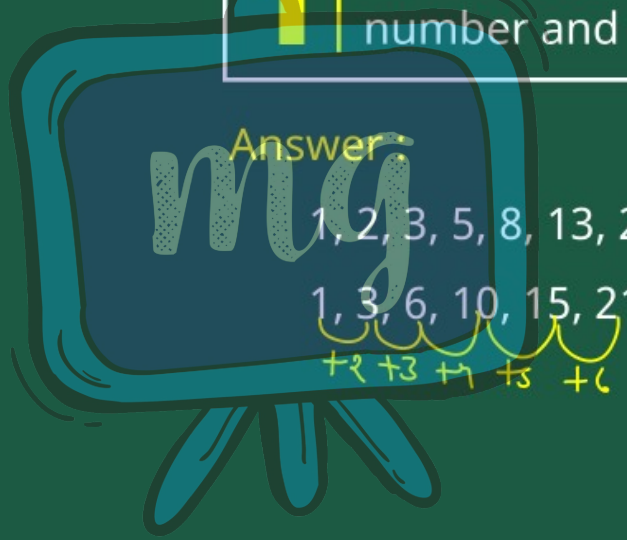
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# PRACTICE QUESTION

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**1** What are virhānka numbers and triangular number and tell their sequences.




Answer :

1, 2, 3, 5, 8, 13, 21, ..... Virhānka Numbers.

1, 3, 6, 10, 15, 21, ..... Triangular Numbers.

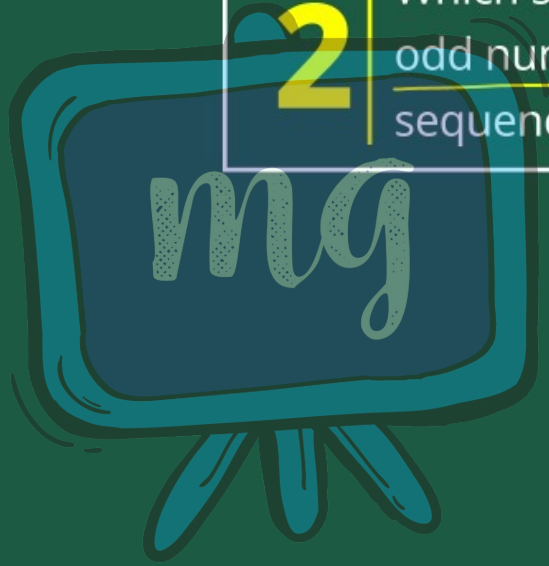
+2 +3 +4 +5 +6

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# PRACTICE QUESTION

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**2** Which sequence is obtained when we add odd numbers upwards ? Can we get the sequence obtained in same other way ?

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# PRACTICE QUESTION

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**2** Which sequence is obtained when we add odd numbers upwards ? Can we get the sequence obtained in same other way ?

Answer :

Adding odd numbers gives a sequence of square numbers.

Yes, The sequence of square numbers can also be obtained by adding counting numbers up and down.

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3 Which sequence we get after adding triangular numbers upwards ?

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# PRACTICE QUESTION

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**3** Which sequence we get after adding triangular numbers upwards ?

Answer :

1, 3, 6, 10, 15, 21, .....

By adding upward

4, 10, 20, 35, 56, .....

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# PRACTICE QUESTION

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4 How can the odd numbers 1, 3, 5, 7, 9, ..... be distributed in a square dot grid ?



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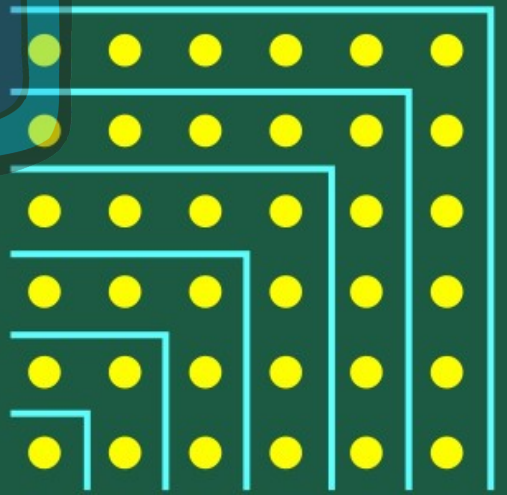
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**4** How can the odd numbers 1, 3, 5, 7, 9, ..... be distributed in a square dot grid ?

Answer :



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# PRACTICE QUESTION

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**5** Draw first 4 terms of regular polygon.

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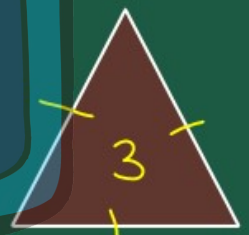
# PRACTICE QUESTION

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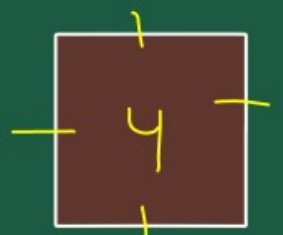


**5** Draw first 4 terms of regular polygon.

Answer :



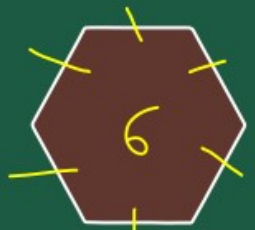

Triangle




Quadrilateral




Pentagon




Hexagon

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# PRACTICE QUESTION

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6 Represents 16 into square and rectangular dot grid.

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# PRACTICE QUESTION

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6 Represents 16 into square and rectangular dot grid.

Answer :







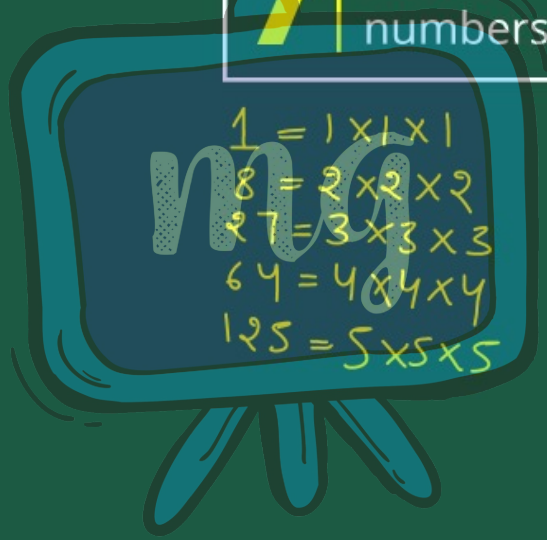
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# PRACTICE QUESTION

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**7** 1, 8, 27, 64, 125, ..... these are cube numbers. Why ?



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# PRACTICE QUESTION

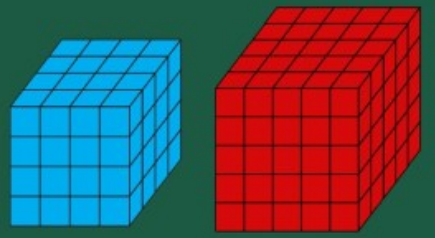
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**7** 1, 8, 27, 64, 125, ..... these are cube numbers. Why ?

Answer :



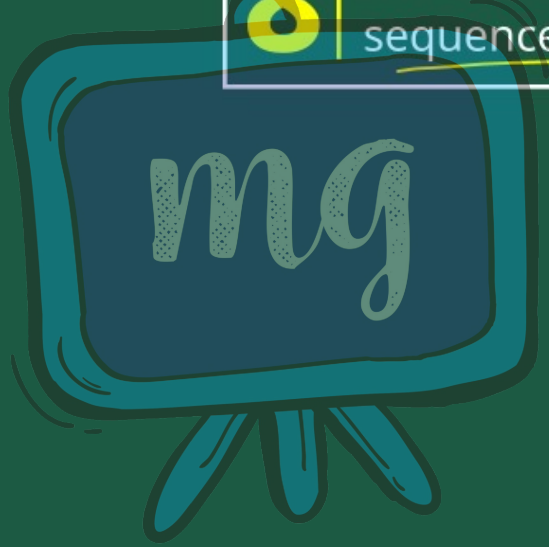
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# PRACTICE QUESTION

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8 When we start adding power of 2, what sequence do we get ?



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# PRACTICE QUESTION

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**8** When we start adding power of 2, what sequence do we get ?

Answer :

1, 2, 4, 8, 16, .....

Adding up

3, 7, 15, 31, 63, .....

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9 Draw shape pattern for stacked triangle.



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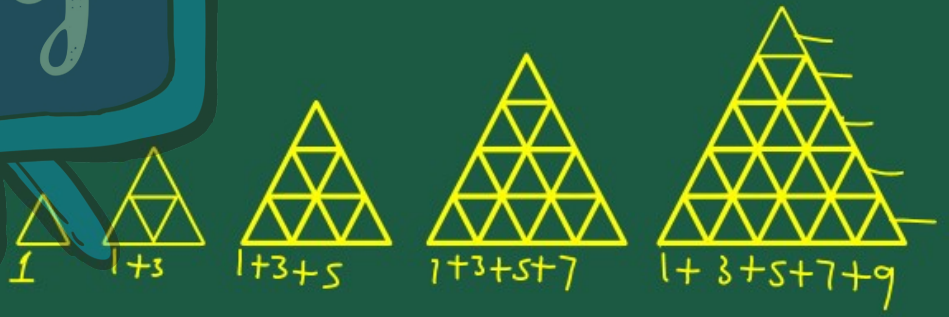
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**9** Draw shape pattern for stacked triangle.

Answer: Odd Numbers Sum.



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# PRACTICE QUESTION

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**10** Give reason - Why these shapes are called Regular polygon ?






Triangle



Quadrilateral



Pentagon



Hexagon

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# PRACTICE QUESTION

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**10** Give reason - Why these shapes are called Regular polygon ?

Answer :

The word ‘regular’ refers to the fact that these shapes have equal-length sides and also equal ‘angles’.