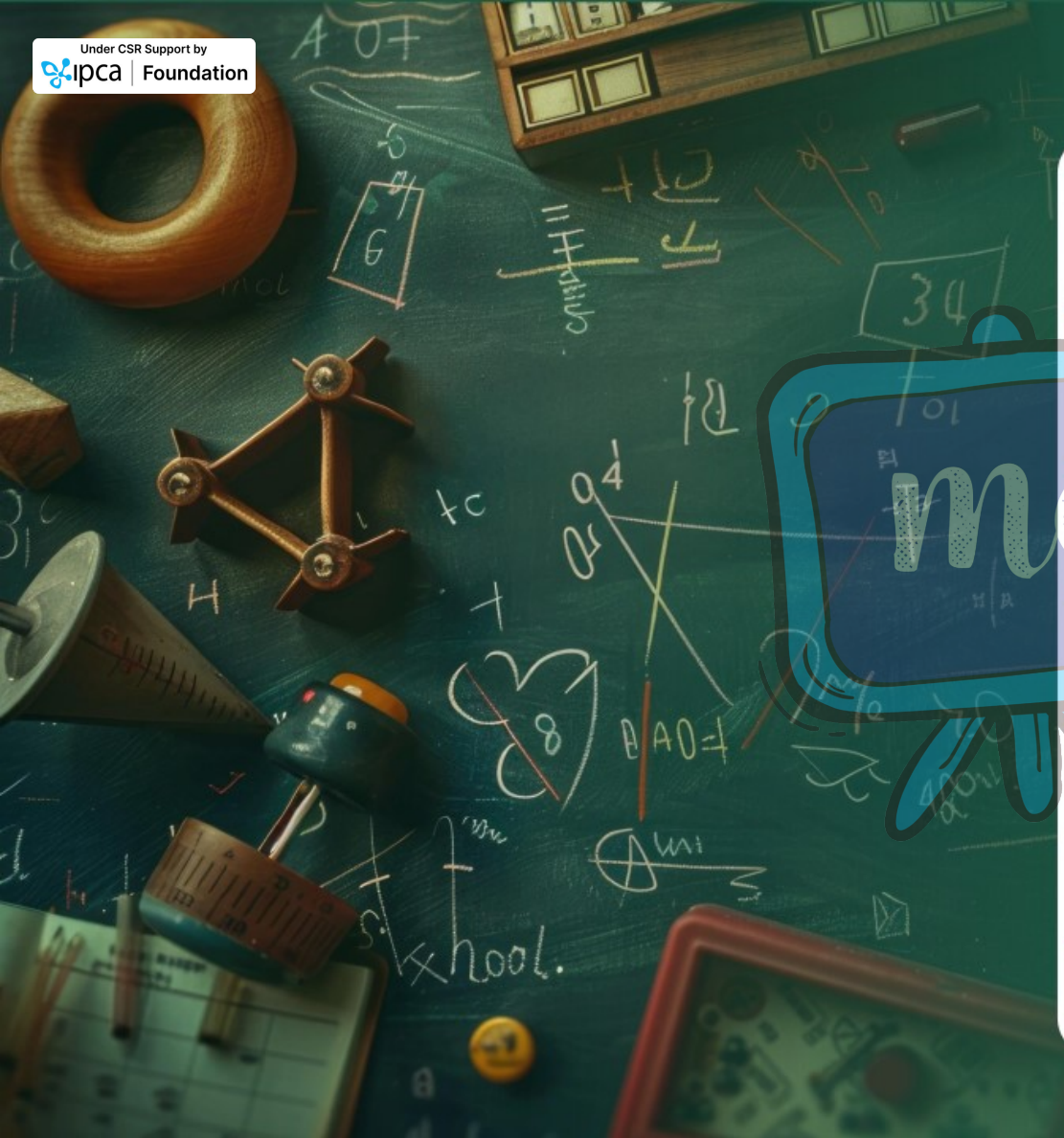
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CLASS – 6

MATHEMATICS

Chapter – 1

Patterns in Mathematics

Part – 3

Figure it Out

Lavish Aggarwal

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1. Can you recognise the pattern in each of the sequences in table ?



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Examples of Number Sequences

1, 1, 1, 1, 1, 1, 1, ..., 1, 1, 1, 1	All 1's
1, 2, 3, 4, 5, 6, 7, ...	Counting numbers
1, 3, 5, 7, 9, 11, 13, ...	Odd numbers
2, 4, 6, 8, 10, 12, 14, ...	Even numbers
1, 3, 6, 10, 15, 21, 28, ...	Triangular numbers

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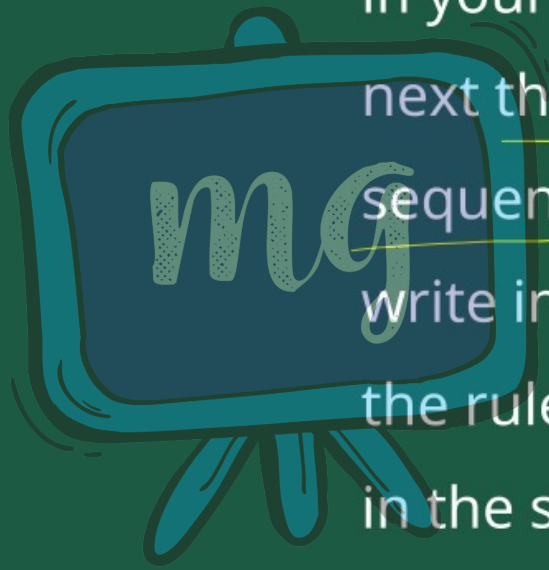
Examples of Number Sequences

1, 4, 9, 16, 25, 36, 49, ...	Squares
1, 8, 27, 64, 125, 216, ...	Cubes
1, 2, 3, 5, 8, 13, 21, ...	Virahānka numbers
1, 2, 4, 8, 16, 32, 64, ...	Powers of 2
1, 3, 9, 27, 81, 243, 729, ...	Powers of 3

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2. Rewrite each sequence of table in your notebook, along with the next three numbers in each sequence. After each sequence, write in your own words what is the rule for forming the numbers in the sequence.



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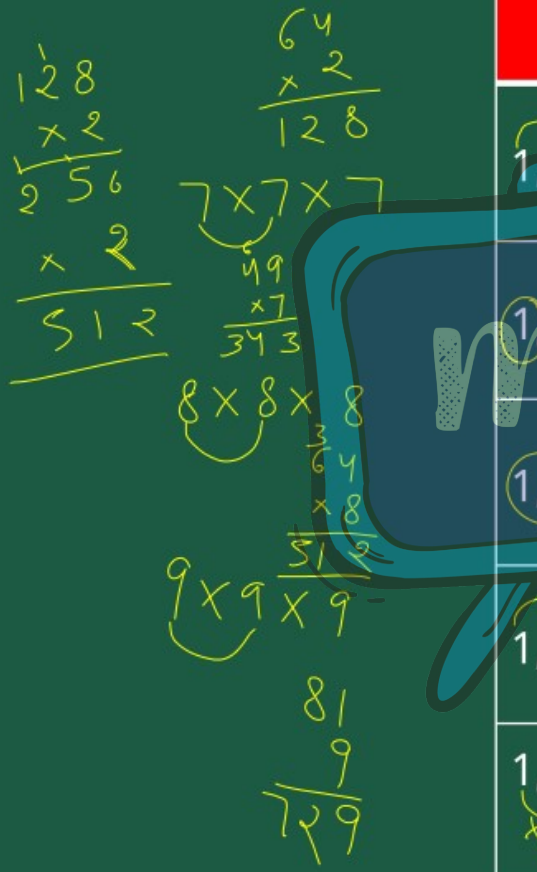
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Examples of Number Sequences

1, 1, 1, 1, 1, 1, 1, ..., 1, 1, 1	All 1's
1, 2, 3, 4, 5, 6, 7, ..., 8, 9, 10	Counting numbers
1, 3, 5, 7, 9, 11, 13, ..., 15, 17, 19	Odd numbers
2, 4, 6, 8, 10, 12, 14, ..., 16, 18, 20	Even numbers
1, 3, 6, 10, 15, 21, 28, ..., 36, 45, 55	Triangular numbers

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Examples of Number Sequences	
1, 4, 9, 16, 25, 36, 49, ...	Squares
1, 8, 27, 64, 125, 216, ...	Cubes
1, 2, 3, 5, 8, 13, 21, ...	Virahānka numbers
1, 2, 4, 8, 16, 32, 64, ...	Powers of 2
1, 3, 9, 27, 81, 243, 729,	Powers of 3

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Examples of Number Sequences	
1, 4, 9, 16, 25, 36, 49, ...	Squares
1, 8, 27, 64, 125, 216, ...	Cubes
1, 2, 3, 5, 8, 13, 21, ...	Virahānka numbers
1, 2, 4, 8, 16, 32, 64, ...	Powers of 2
1, 3, 9, 27, 81, 243, 729, 2187, 6561, 19683	Powers of 3