

Mathematics

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(Ganita Prakash) (Chapter 1) (Patterns in Mathematics)

(Class – VI)

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

Answer:

1. Recognising the Patterns in Sequences:

- All 1's Sequence (1, 1, 1, 1, ...): Each number in the sequence is always 1.
- Counting Numbers (1, 2, 3, 4, ...): Each number increases by 1.
- Odd Numbers (1, 3, 5, 7, ...): Each number increases by 2, starting from 1.
- Even Numbers (2, 4, 6, 8, ...): Each number increases by 2, starting from 2.
- Triangular Numbers (1, 3, 6, 10, ...): The difference between consecutive numbers increases by 1 each time.
- Squares (1, 4, 9, 16, ...): Each number is the square of a natural number (e.g., 1^2 , 2^2 , 3^2 , ...).
- Cubes (1, 8, 27, 64, ...): Each number is the cube of a natural number (e.g., 1^3 , 2^3 , 3^3 , ...).

2. Extending Sequences in Table 1:

- All 1's Sequence: The next three numbers are 1, 1, 1. The rule is that every number in the sequence is 1.
- Counting Numbers Sequence: The next three numbers are 8, 9, 10. The rule is to add 1 to the previous number.
- Odd Numbers Sequence: The next three numbers are 15, 17, 19. The rule is to add 2 to the previous number.
- Even Numbers Sequence: The next three numbers are 16, 18, 20. The rule is to add 2 to the previous number.
- Triangular Numbers Sequence: The next three numbers are 36, 45, 55. The rule is to add the next counting number to the previous triangular number (e.g., $1 + 2 = 3$, $3 + 3 = 6$, $6 + 4 = 10$, ...).
- Squares Sequence: The next three numbers are 64, 81, 100. The rule is to square the next counting number (e.g., $8^2 = 64$, $9^2 = 81$, $10^2 = 100$).
- Cubes Sequence: The next three numbers are 125, 216, 343. The rule is to cube the next counting number (e.g., $5^3 = 125$, $6^3 = 216$, $7^3 = 343$).

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Charles V. Benton



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