

Subject: Mathematics

Class: 3

Topic: Number Patterns

Levels: Basic, Intermediate, Advanced

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## Level: Basic

1. Complete the pattern: 2, 4, 6, 8, \_\_\_\_, \_\_\_\_
2. Skip count by 5s: 5, 10, 15, 20, \_\_\_\_, \_\_\_\_
3. What comes next? 10, 20, 30, 40, \_\_\_\_
4. Fill the missing number: 3, 6, 9, \_\_\_\_, 15
5. Count backwards: 50, 40, 30, \_\_\_\_, 10
6. Aarav has laddoos in groups: ● ●, ● ● ● ●, ● ● ● ● ● ●. Next is: \_\_\_\_
7. Complete the sequence: 11, 22, 33, \_\_\_\_, 55
8. Find the pattern: 100, 200, 300, \_\_\_\_, 500
9. Skip count by 2: 13, 15, 17, \_\_\_\_, 21
10. Identify the rule: 4, 8, 12, 16. (Rule: Add \_\_\_\_ each time)

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### Level: Intermediate

1. Complete the pattern: 105, 110, 115, \_\_\_\_, 125
2. Find the missing numbers: 24, 21, 18, \_\_\_\_, 12, \_\_\_\_
3. Growing pattern: 1, 3, 6, 10, \_\_\_\_ (Hint: Add 2, then 3, then 4...)
4. Priya saves ₹10 on Monday, ₹20 on Tuesday, ₹30 on Wednesday. Thursday: ₹ \_\_\_\_
5. Complete the skip count: 25, 50, 75, \_\_\_\_, 125
6. Identify the pattern: 2, 4, 8, 16, \_\_\_\_ (Hint: Double the number)
7. Missing number: 99, 88, 77, \_\_\_\_, 55
8. Patterns with symbols: ★, ★ ★, ★ ★ ★, \_\_\_\_\_ (Draw next)
9. What is the next number? 1, 4, 9, 16, \_\_\_\_ (Hint:  $1 \times 1$ ,  $2 \times 2$ ,  $3 \times 3$ ...)
10. Solve the pattern: 5, 15, 25, 35, \_\_\_\_, \_\_\_\_

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## Level: Advanced

1. Two-step pattern: 2, 5, 4, 7, 6, 9, \_\_\_\_ (Hint: +3, -1)
2. Find the rule and complete: 200, 190, 181, 173, \_\_\_\_ (Hint: -10, -9, -8...)
3. Growing shapes: ▲, ▲▲▲, ▲▲▲▲▲. Next has \_\_\_\_ triangles.
4. Pattern challenge: 1, 2, 4, 7, 11, 16, \_\_\_\_
5. Complete: 7, 14, 21, 28, \_\_\_\_, 42 (Table of 7)
6. Identify the mistake in this pattern: 5, 10, 16, 20, 25. Correct it: \_\_\_\_
7. If  $1 = \text{☼}$ ,  $2 = \text{☼☼}$ ,  $3 = \text{☼☼☼}$ , then  $10 = \underline{\hspace{2cm}}$  (How many flowers?)
8. Pattern: 500, 450, 400, 350, \_\_\_\_, \_\_\_\_
9. Logic: 1, 10, 2, 20, 3, 30, \_\_\_\_, \_\_\_\_
10. Challenge: Find the 10th number in this pattern: 2, 4, 6, 8...