Number Patterns

Introduction

- Number patterns are sequences of numbers that follow a specific rule
- The rule can be adding, subtracting, multiplying, or dividing
- Number patterns help us predict the next number or find the missing one
- Some number patterns increase, some decrease, and some may repeat in a cycle
- Recognizing the pattern rule is the key to solving the sequence

Examples with Solutions

Example: Find the next number: 3, 6, 9, 12, ____

✓ Rule: Add 3

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✓ 12 + 3 = 15
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Answer: 15

Example: Find the missing number: 50, 45, __, 35, 30

- ✓ Rule: Subtract 5
- ✓ 45 5 = 40

Answer: 40

Example: What comes next: 2, 4, 8, 16, ____

- ✓ **Rule:** Multiply by 2
- ✓ 16 × 2 = 32

Answer: 32

Example: Find the missing number: 100, 90, __, 70, 60

- ✓ Rule: Subtract 10
- ✓ 90 10 = 80

Answer: 80

Example: What comes next: 1, 4, 9, 16, ____

✓ Rule: Square numbers (1×1, 2×2, 3×3...)

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✓ Next is 5×5 = 25
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Answer: 25

Summary Points

- Number patterns follow a fixed rule such as +, -, ×, or ÷.
- Some patterns increase (growing patterns), while some decrease (shrinking patterns).
- To solve a pattern, observe how the numbers are changing.
- Number patterns help improve mental math and logical thinking.
- Recognizing the rule helps in finding the next or missing number.