

SSC CGL Reasoning - Complete Chapter Guide

Pattern Recognition | Visual Reasoning | Shape Series | Figure Analysis | SSC CGL Exam Focus

Step 1: Click "Print Chapter" button
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Chapter Overview: This chapter covers non-verbal series techniques including pattern recognition, visual reasoning, shape series analysis, and figure completion skills essential for SSC CGL reasoning section.

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★ 1. INTRODUCTION TO NON-VERBAL SERIES

What are Non-Verbal Series?

Definition: Non-verbal series are sequences of figures, shapes, or patterns that follow a specific logical rule. The task is to identify the pattern and determine the next figure in the sequence.

Wey Insight: Non-verbal series test your visual reasoning, pattern recognition, and logical thinking skills without relying on language or numbers.

Types of Non-Verbal Series Problems

↔ Linear Series

- Figures change in one direction
- Simple progression patterns
- Rotation, size, or shape changes
- Color or shading patterns
- Position movement

⊞ Matrix Series

- Figures arranged in rows and columns
- Patterns in both directions
- Combination of changes
- Row-wise and column-wise patterns
- Diagonal patterns

T Complex Patterns

- Multiple changing elements
- Alternating patterns
- Mathematical operations on figures
- Mirror images or reflections
- Overlapping figures

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Q 2. PATTERN RECOGNITION TECHNIQUES

Common Pattern Types







Next Figure: The pattern would continue with another 90° rotation



Pattern: Alternating colors (red, teal, red, teal, red)

Systematic Approach to Pattern Solving

≡ Step-by-Step Pattern Analysis:

- Observe the Series- Look at all figures carefully
- 2 Identify Changing Elements Note what changes between figures
- 2 Look for Check for clockwise/counterclockwise patterns
- 4 Check Size/Shape Changes Look for increasing/decreasing patterns
- **Analyze Color/Shading** Note any color or shading patterns
- Test Your Hypothesis- Verify the pattern works for all given figures
- Predict Next Figure Apply the pattern to find the next figure

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3. COMMON NON-VERBAL PATTERNS

Rotation and Movement Patterns

| Pattern Type | Description | Example |
|----------------------------|--|--|
| Clockwise Rotation | Figures rotate 45°, 90°, or 180° clockwise | $\triangle \to \blacktriangleright \to \blacktriangledown \to$ |
| Anti-clockwise Rotation | Figures rotate in counterclockwise direction | |
| Position Movement | Elements move within the figure in specific directions | Dot moves corner to corner |
| Flip/Reflection | Figures are mirrored horizontally or vertically | ⊿ becomes ⊾ |

Size and Quantity Patterns

↑ Increasing Pattern

- Number of elements increases
- Size of elements increases
- More complex figures
- · Additional details added
- Arithmetic progression

↓ Decreasing Pattern

- Number of elements decreases
- Size of elements decreases
- Simpler figures
- Details removed
- Reverse progression

2 Alternating Pattern

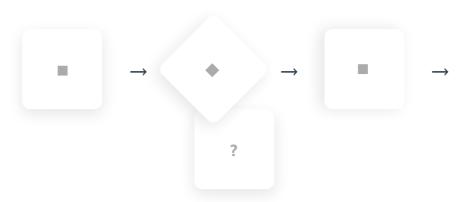
- Two different patterns alternate
- Odd-even position differences
- Color/shape alternation
- Size alternation
- Position alternation

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₹ 4. PRACTICE QUESTIONS WITH SOLUTIONS

Rotation Pattern Questions

Q1. What comes next in the series?

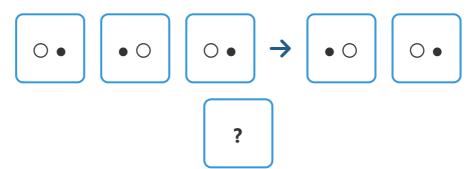


- A) (no rotation)
- B) rotated 135°
- C) rotated 180°
- D) rotated 270°

Check Answer

Complex Pattern Questions

Q2. Identify the missing figure in the series:



- A) ○
- B) •
- O C) O O
- D) •

Check Answer

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5. SSC CGL EXAM STRATEGY

Time Management & Approach

Exam Strategy for Non-Verbal Series:

- 1. **Quick Series Scan** Observe all figures (10 seconds)
- 2. **Identify Changing Elements** Note what's different (15 seconds)
- 3. **Hypothesize Pattern** Form initial theory about the pattern (10 seconds)
- 4. **Test Your Theory** Verify with all given figures (15 seconds)
- 5. Check Options Compare with answer choices (10 seconds)
- 6. Final Verification Double-check your selection (5 seconds)

Tommon SSC CGL Non-Verbal Patterns:

- 45°/90° rotation patterns
- Alternating figure sequences
- Increasing/decreasing elements
- Position movement within figures
- Color/shading alternation
- Mirror image patterns
- Combination of multiple changes

Quick Recognition Techniques

★ Speed Solving Tips:

- Look for obvious rotation first it's the most common pattern
- Check if elements are being added or removed
- See if there's position movement of internal elements
- Look for alternating colors or shapes
- For matrix problems, check both row and column patterns
- Use elimination method for multiple choices
- Practice common patterns to build recognition speed

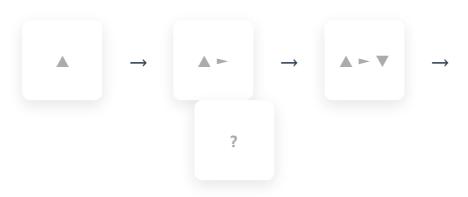
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☎ 6. ADVANCED PATTERNS & PRACTICE

Complex Pattern Types

© Example: Combined Rotation and Addition



Pattern: Adding a new arrow rotated 90° clockwise at each step **Next Figure:** ▲ ► ▼ < (four arrows pointing in all directions)

Daily Practice Routine

苗 4-Week Preparation Plan:

Week 1: Basic Rotation Patterns (15 questions/day) Week 2: Size and Quantity Patterns (20 questions/day) Week 3: Complex Combined Patterns (20 questions/day) Week 4: Speed Practice & Mock Tests (25 questions/day)

Effective Non-Verbal Practice:

- Start with simple rotation patterns
- Practice identifying multiple changing elements
- Work on matrix pattern recognition
- Time yourself to improve speed
- Review mistakes to understand pattern types
- Create your own patterns for practice
- Use visualization techniques for complex patterns

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