

JPMethod

Non-Verbal Reasoning

Visual Pattern Recognition and Logical Reasoning

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info@jpmethod.org

www.jpmethod.org

JPMethod Non-Verbal Reasoning - Instructions

Welcome to the JP Method Non-Verbal Reasoning Practice workbook. This resource is designed to help students develop visual pattern recognition, logical reasoning, and spatial awareness through systematic practice.

- Work through one section at a time, mastering each pattern type before moving on.
- Focus on identifying the underlying rule or pattern in each sequence.
- Mark your answer clearly in the box or circle provided.
- Use the process of elimination when multiple choices are available.
- Practice regularly to improve speed and accuracy.
- Use the answer key at the back to check your work and understand the reasoning.
- Consistent practice builds logical thinking and pattern recognition skills.

Developing strong non-verbal reasoning skills enhances problem-solving abilities and logical thinking. These skills are valuable for academic success and everyday decision-making. Keep practicing and enjoy the challenge!

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Parent Guide: Non-Verbal Reasoning

How to Print This Guide

- Print 2 pages per sheet (A5 pages on A4 paper)
- Select 'Flip on short edge' for double-sided printing
- Look for the standard cut marks on the printed pages
- Use a photo slicer or sharp blade to cut along the cut marks
- This will separate the pages into individual A5 sheets

Your Approach as a Parent

- Encourage observation before answering - ask 'What do you notice?'
- Don't rush to provide answers - guide with questions instead
- Celebrate the thinking process, not just correct answers
- Be patient - visual reasoning develops at different rates
- Daily practice of 15-20 minutes is more effective than long sessions
- Use real-world examples: tile patterns, wallpaper designs, nature
- Accept that some patterns are genuinely challenging for adults too

About This Workbook

This workbook develops non-verbal reasoning skills through visual pattern recognition, logical thinking, and spatial awareness exercises. Students progress through increasingly complex patterns, preparing them for standardized tests and developing critical thinking abilities essential for mathematics and science.

Essential Non-Verbal Reasoning Skills

- Pattern Recognition: Identifying rules in sequences of shapes, colors, and sizes
- Spatial Reasoning: Understanding rotations, reflections, and transformations
- Logical Deduction: Using process of elimination and reasoning to find answers
- Visual Analysis: Breaking down complex patterns into component rules
- Abstract Thinking: Moving from concrete examples to general principles

Understanding the Sections

- Simple Sequences: Basic patterns with single attributes changing
- Complex Sequences: Multiple attributes changing simultaneously
- Analogies: 'A is to B as C is to ?' relationships
- Matrices: 2x2 or 3x3 grids with row and column patterns
- Transformations: Rotations, reflections, and combinations
- Advanced Patterns: Multiple rules and exceptions

Effective Teaching Strategies

- Start by describing what they see: shapes, sizes, colors, positions
- Look for what changes and what stays the same between items
- Count elements - sometimes the pattern is numerical
- Check multiple possibilities before deciding on the rule
- Use finger tracing for rotation and reflection patterns
- Cover answer choices initially to avoid guessing
- Work backwards from answer choices when stuck
- Draw or use physical objects to recreate patterns
- Verbalize the pattern rule before selecting an answer

Practice Session Guidelines

- Create a quiet, distraction-free environment
- Start with easier sections to build confidence
- Time limits are not recommended initially - focus on accuracy
- Review incorrect answers together without judgment
- Ask your child to explain their reasoning for both correct and incorrect answers
- Take breaks between problems if frustration builds
- Gradually increase difficulty as skills improve
- Mix different problem types to maintain engagement
- Use the answer key to understand patterns you both find difficult

Common Mistakes and Solutions

- Problem: Focusing on only one attribute (e.g., shape) and missing others
- Solution: Systematically check shape, size, color, position, and quantity
-
- Problem: Assuming patterns are more complex than they are
- Solution: Start with simple rules before considering complex ones
-
- Problem: Rushing through without checking all answer options
- Solution: Evaluate each choice against the identified pattern
-
- Problem: Getting discouraged by difficult problems
- Solution: Skip hard problems and return to them later with fresh eyes

When Students Struggle

- Break complex patterns into separate attributes
- Use colored pencils to highlight different elements
- Create similar patterns with everyday objects
- Work through problems aloud together
- Look for patterns in everyday life: floor tiles, fabric, architecture
- Practice describing what they see before solving
- Start with just two items and predict the third
- Use the 'what's different?' game with any two items
- Remember that pattern recognition improves with practice
- Consider if visual processing or attention might need support

Monitoring Progress

- Can they explain the rule after finding the answer?
- Do they check their answer against the pattern?
- Are they becoming faster at identifying simple patterns?
- Can they create their own pattern problems?
- Do they spot patterns in everyday situations?
- Are they using systematic approaches rather than guessing?
- Can they handle multiple attributes changing at once?
- Do they persist with challenging problems?

Beyond This Workbook

Students who master these non-verbal reasoning skills are well-prepared for advanced mathematics, computer science, and scientific thinking. These visual and logical reasoning abilities form the foundation for algebra, geometry, physics, and programming. Consider progression to more complex puzzle books, spatial reasoning games, and mathematical pattern exploration.

Section 1. Simple Sequences

Look at the pattern and choose the correct answer.

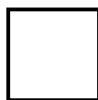
1. What comes next in the sequence?



?

A**B****C****D**

Answer:



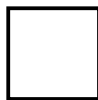
2. What comes next in the sequence?



?









A**B****C****D**

Answer:











Section 1. Simple Sequences
Look at the pattern and choose the correct answer.

3. What comes next in the sequence?

			
A	B	C	D
			

Answer:

4. What comes next in the sequence?

			
A	B	C	D
			

Answer:

Section 1. Simple Sequences

Look at the pattern and choose the correct answer.

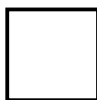
5. What comes next in the sequence?



?

A**B****C****D**

Answer:



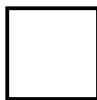
6. What comes next in the sequence?



?

A**B****C****D**

Answer:



Section 1. Simple Sequences

Look at the pattern and choose the correct answer.

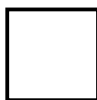
7. What comes next in the sequence?



?

A**B****C****D**

Answer:



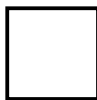
8. What comes next in the sequence?



?








A**B****C****D**


Answer:










Section 1. Simple Sequences
Look at the pattern and choose the correct answer.


9. What comes next in the sequence?

			?
A	B	C	D
			

Answer: 

10. What comes next in the sequence?

			?
A	B	C	D
			

Answer: 

Section 1. Simple Sequences

Look at the pattern and choose the correct answer.

11. What comes next in the sequence?



?

A

B

C

D



Answer:



12. What comes next in the sequence?



?

A

B

C

D



Answer:










Section 1. Simple Sequences
Look at the pattern and choose the correct answer.

13. What comes next in the sequence?

☆☆	☆☆☆	☆☆☆ ☆☆	?
A	B	C	D
☆☆☆ ☆☆☆ ☆	☆☆☆ ☆☆☆	☆☆☆ ☆☆☆ ☆☆	☆☆☆ ☆☆☆ ☆☆☆

Answer:









14. What comes next in the sequence?


			?
A	B	C	D
			

Answer:









Section 1. Simple Sequences
Look at the pattern and choose the correct answer.


15. What comes next in the sequence?

			
A	B	C	D
			

Answer: 

16. What comes next in the sequence?

			
A	B	C	D
			

Answer: 

Non-Verbal Reasoning - Section 1 Solutions

Section 1: Simple Sequences - Answer Key

Quick Answers:

Problem 1: A	Problem 2: A	Problem 3: A	Problem 4: A
Problem 5: A	Problem 6: A	Problem 7: A	Problem 8: A
Problem 9: A	Problem 10: A	Problem 11: A	Problem 12: A
Problem 13: A	Problem 14: A	Problem 15: A	Problem 16: A

Pattern Explanations:

Problem 1: Size increases by 1 step(s) each time: small - medium - large - xlarge

Problem 2: Size doubles each time: tiny - small - medium - large

Problem 3: Fibonacci sequence: 1 - 1 - 2 - 3

Problem 4: Counting progression: 1 - 2 - 3 - 4

Problem 5: Rotation by 90 degrees each time: 0 - 90 - 180 - 270

Problem 6: Angular progression: 30 degree increments

Problem 7: Shape transformation: circle - square - triangle - diamond

Problem 8: Alternating fill: empty - filled - empty - filled

Problem 9: Color cycle: black - gray - white - black

Problem 10: Reflection pattern: alternating orientations

Problem 11: Complex alternating: shape and fill both alternate

Problem 12: Position spiral: center - top - right - bottom

Problem 13: Prime number sequence: 2 - 3 - 5 - 7

Problem 14: Size decreases by 1 step(s) each time: large - medium - small - tiny

Problem 15: Reflection pattern: alternating orientations

Problem 16: Size doubles each time: tiny - small - medium - large