

Student Name: _____

Class: _____

Due Date: _____

Introduction and Instructions

Welcome to the 11+ Non-Verbal Reasoning homework assignment. This worksheet is designed to support classroom learning objectives by reinforcing the concept of recognizing and completing patterns using shapes and figures. The objective of this assignment is to encourage critical thinking, independent learning, and problem-solving skills, aligning with educational standards for 11-year-old students.

Instructions:

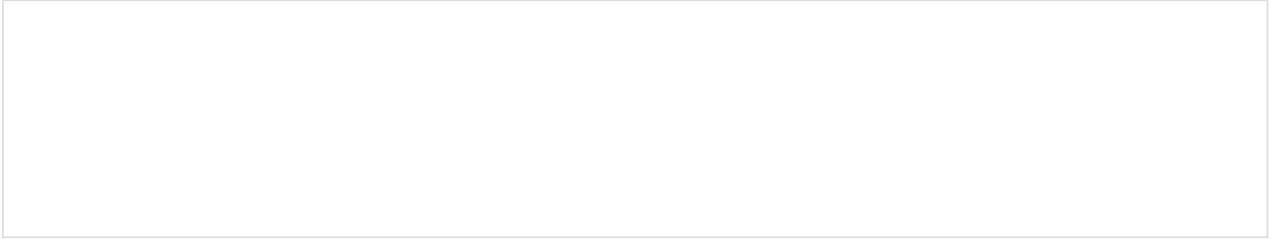
1. Read each question carefully before attempting to answer.
2. Use a pencil and eraser to complete the activities.
3. Work independently to assess your understanding and skills.
4. Check your work before submitting to ensure accuracy and completeness.
5. Ask for help if needed from your teacher or parent/guardian.

Shape Patterns

Complete the patterns by drawing the next shape in the sequence.

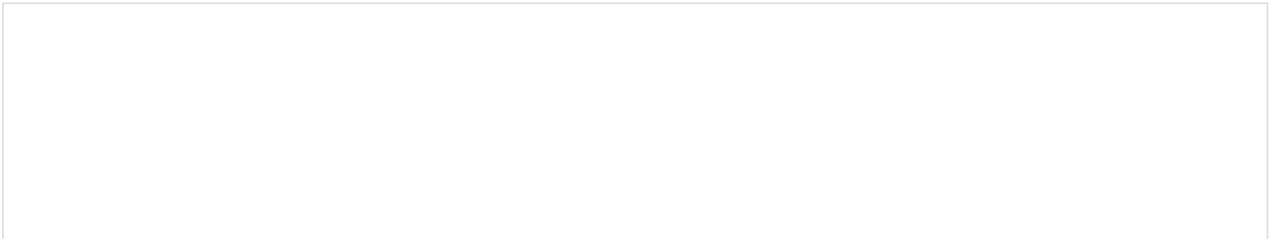
1. Sequence 1:

- Square, Circle, Triangle, Square, Circle, _____



2. Sequence 2:

- Big Square, Small Square, Big Square, Small Square, Big Square, _____



3. Sequence 3:

- Red Circle, Blue Square, Red Circle, Blue Square, Red Circle, _____

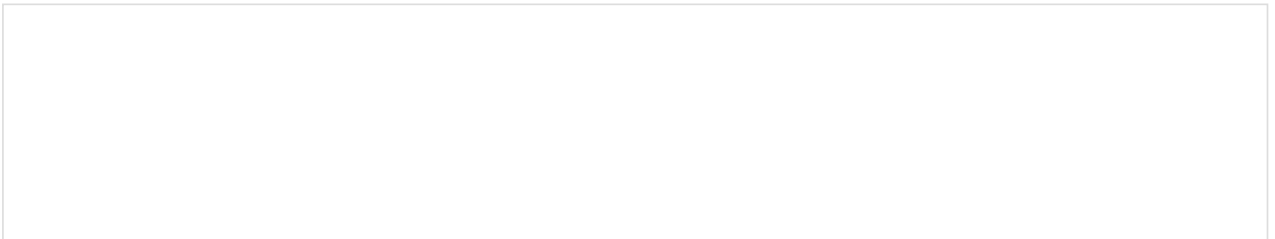
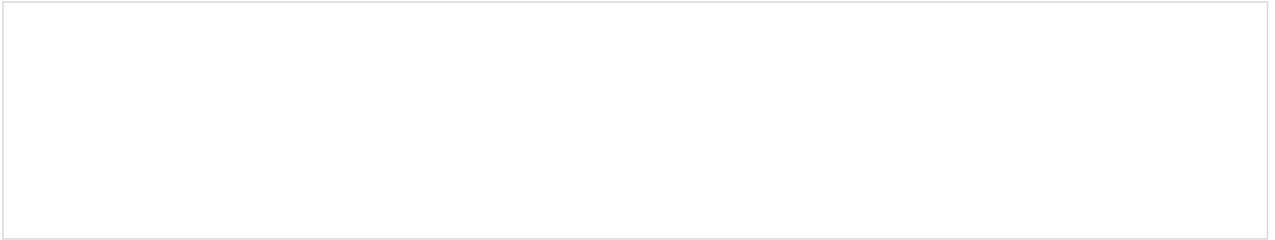


Figure Completion

Use the pattern shown in the completed parts of the figure to determine what the missing parts should look like.

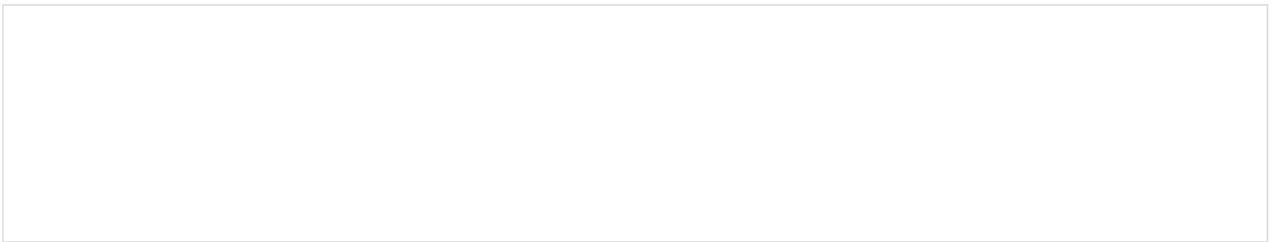
1. Figure 1:

- A series of connected triangles with alternating colors (red and blue) and a missing triangle at the end.



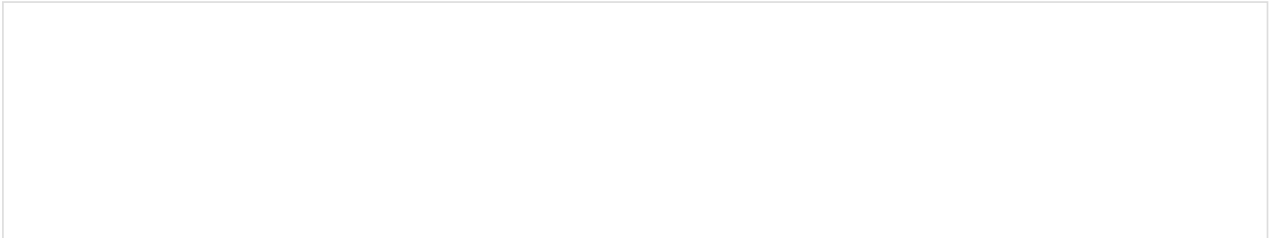
2. Figure 2:

- A pattern of overlapping circles with different patterns (stripes and dots) and a missing circle.



3. Figure 3:

- A grid with a pattern of shapes (squares, circles, triangles) and a missing shape in the grid.

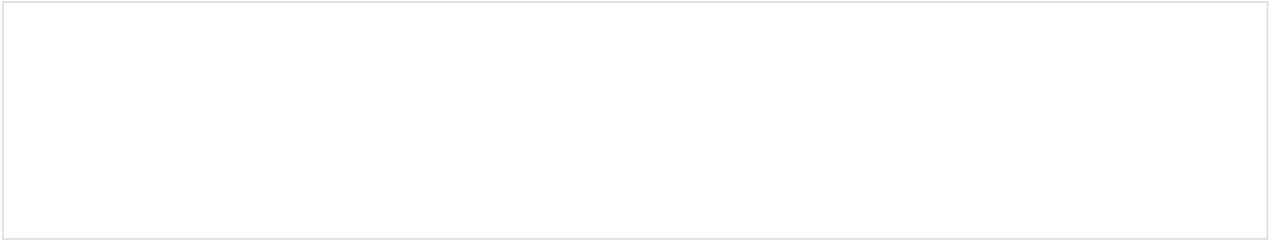


Mixed Patterns

Read each question carefully and apply your knowledge of shape and figure patterns to complete the task.

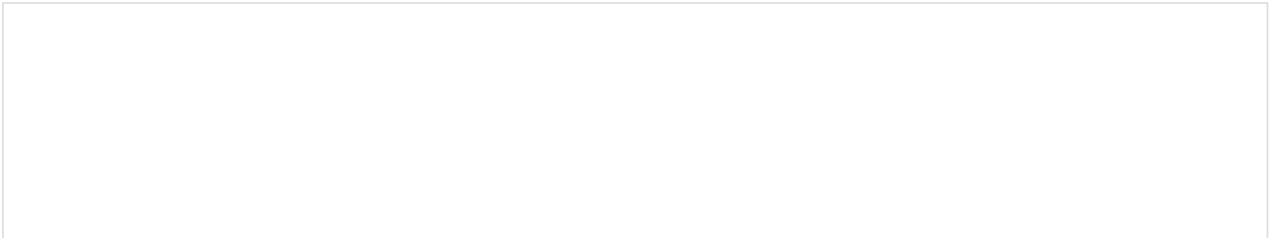
1. Mixed Pattern 1:

- A sequence that alternates between shapes (square, circle) and colors (red, blue), with a missing element at the end.



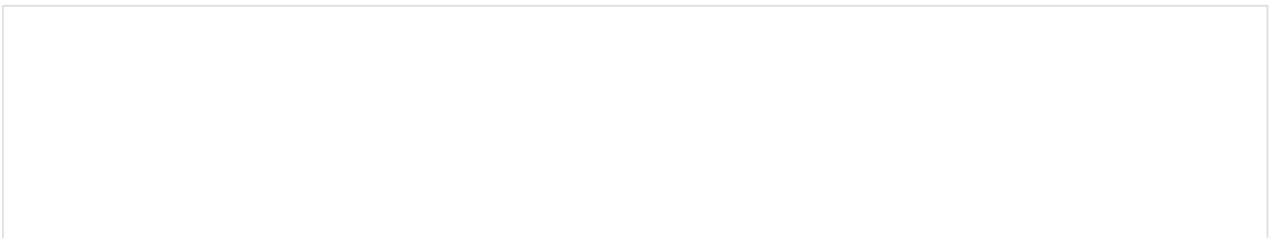
2. Mixed Pattern 2:

- A figure with a combination of shape patterns (increasing size) and color patterns (alternating colors), with a missing part.



3. Mixed Pattern 3:

- A grid with a pattern that involves both shapes and numbers, and a missing element to complete the pattern.



Extension Activities

For students who complete the main activities quickly or wish for an additional challenge:

1. Create Your Own Pattern:

- Design a unique pattern using shapes and figures and ask a friend or family member to complete it.

2. Pattern Analysis:

- Choose one of the patterns from the main activities and write a short paragraph explaining the rule or logic behind it.

3. Real-World Patterns:

- Find and identify patterns in real-life objects or designs (e.g., architecture, art, nature) and describe them in a short essay.

Success Criteria and Parent/Guardian Notes

Success Criteria:

- All questions in the main activities are attempted.
- Your answers demonstrate an understanding of pattern recognition and completion.
- If attempted, extension activities are completed to a high standard and demonstrate additional skills such as creativity and analytical thinking.

Parent/Guardian Notes:

- Support and guidance: Encourage your child to work independently but be available to provide guidance if they are struggling with a concept.
- Time management: Ensure your child understands the estimated completion time and helps them manage their time effectively.
- Feedback: Review the assignment with your child, discussing any challenges they faced and how they overcame them.
- Real-world connections: Discuss with your child how patterns are used in real-life situations, reinforcing the practical application of the skills they are learning.

Conclusion

By completing this homework assignment, you have reinforced your understanding of recognizing and completing patterns using shapes and figures, a key component of 11+ Non-Verbal Reasoning. Remember to ask for help if you need it, and don't forget to have fun while learning!