

# Non-Verbal Reasoning

Patterns | Mirror | Matrix | Paper Folding

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## Topics:

1. Pattern Recognition
  2. Figure Series & Matrix
  3. Paper Folding & Cutting
  4. MCQ Practice
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## 1. Pattern Recognition

Non-verbal reasoning involves shapes, figures, and diagrams instead of words. Key areas: Mirror images, Water images, Figure series, Paper folding, Embedded figures, Counting figures.

**Q. What is Mirror Image?**

**Ans:** The reflection of a figure/image in a vertical mirror — left and right are reversed, but top and bottom remain same

**Q. What is Water Image?**

**Ans:** The reflection in water — top and bottom are reversed, left and right remain same

**Q. How to count triangles in a figure?**

**Ans:** Count smallest triangles first, then count combinations of 2, 3, 4 triangles. Use formula if grid is regular.

## 2. Figure Series & Matrix

In figure series, a sequence of figures follows a pattern. Common patterns: Rotation (90, 180, 270 degrees), Reflection, Addition/removal of elements, Shading patterns.

**Q. If a square rotates 90 degrees clockwise, what happens?**

**Ans:** The figure rotates — top goes to right, right goes to bottom, bottom goes to left, left goes to top

**Q. In a 3x3 matrix question, how to find missing figure?**

**Ans:** Check row-wise pattern, column-wise pattern, and diagonal pattern. Find the rule and apply it

## 3. Paper Folding & Cutting

A paper is folded and a cut is made. When unfolded, the cut creates a symmetric pattern. Key rule: The cut is mirrored on all folded layers.

**Q. A square paper is folded once diagonally and a circular hole is punched. How many holes after unfolding?**

**Ans:** 2 holes (one on each half of the diagonal fold)

**Q. Paper folded twice (horizontal then vertical) — 1 hole punched. How many holes?**

**Ans:** 4 holes — one in each quadrant

## 4. MCQ Practice Set

**Q. In mirror image, which part changes?**

- (a) Top & Bottom
- (b) Left & Right
- (c) Diagonal
- (d) Nothing changes

**Answer: (b) Left & Right**

**Q. A clock shows 3:30. What will its mirror image show?**

- (a) 8:30
- (b) 9:30
- (c) 8:00

(d) 9:00

**Answer: (a) 8:30**

**Q. How many triangles in a triangle divided by 3 lines from each vertex?**

(a) 6

(b) 8

(c) 10

(d) 12

**Answer: (a) 6**

**Q. If NORTH is the mirror image of SOUTH, what is the mirror image of EAST?**

(a) WEST

(b) TSAW

(c) TSAE

(d) TSEW

**Answer: (c) TSAE**