

Logical Reasoning

Test 3



Solutions Booklet

Instructions

This test contains **12 questions**. There is an overall time limit of **15 minutes** for the test or **70 seconds** per question.

In each question you will be presented with grid of symbols. You will need to determine which of the possible answers best matches the missing symbol in the grid denoted by a question mark.

Each question will have 1 correct answer from a choice of 5 possible answers, and you must select the most correct option.

Try to find a time and place where you will not be interrupted during the test. The test will begin on the next page.

Q1 What replaces the question mark?

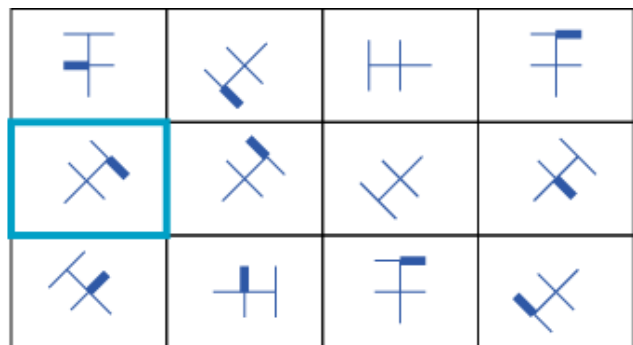
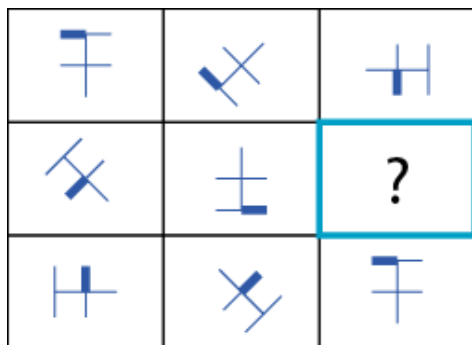
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| □ ▲ ○ | △ ○ ■ | ● □ △ |
| ○ ■ △ | ? | ▲ ○ □ |

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| □ ○ ▲ | ○ □ ▲ | ■ △ ○ | ▲ ○ □ |
| ○ ■ △ | △ □ ○ | ○ □ △ | □ △ ● |
| ○ □ ■ | □ ▲ ○ | △ ● □ | ▲ ○ □ |

Rule 1: From left to right, each shape moves two places to the right. This continues onto the next row.

Rule 2: From left to right, the 'filled shape' moves one place to the right. This continues onto the next row (looping around to the first shape).

Q2 What replaces the question mark?



Rule 1: From left to right, the shape rotates 135° counter-clockwise.

Rule 2: From left to right, the highlighted prong moves one space clockwise.

Q3 What replaces the question mark?

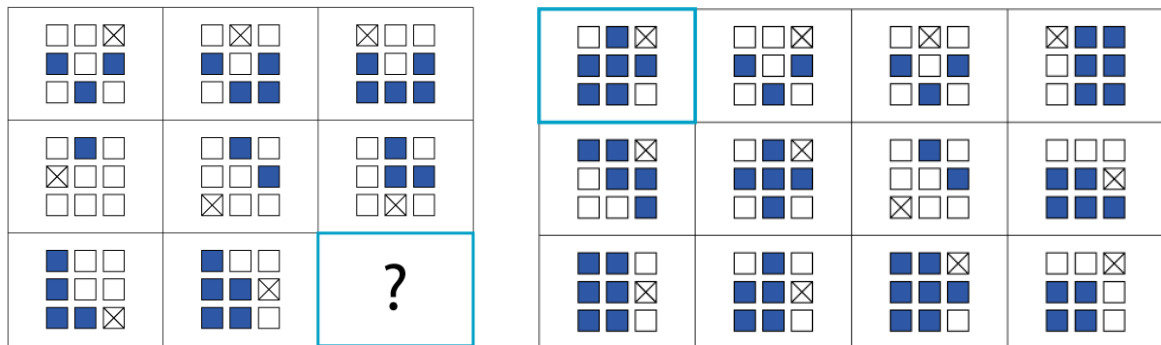
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Rule 1: Each box must contain a total of ten edges.

Rule 2: From left to right, the final shape becomes the first shape of the next box.

Q4 What replaces the question mark?



Rule 1: From left to right, the 'crossed' box moves one place anticlockwise. This continues onto the next row.

Rule 2: From left to right, the total number of filled squares increases by one each time. This rule resets on each row.

Q5 What replaces the question mark?

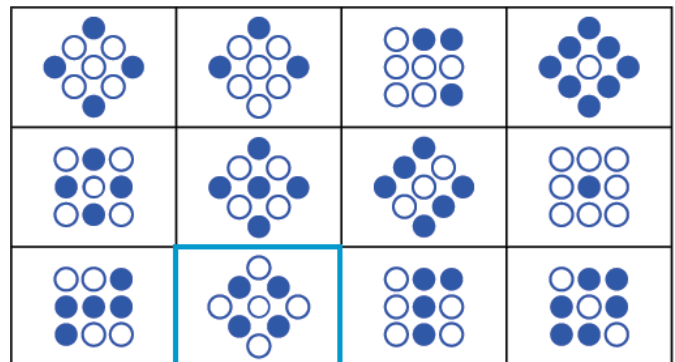
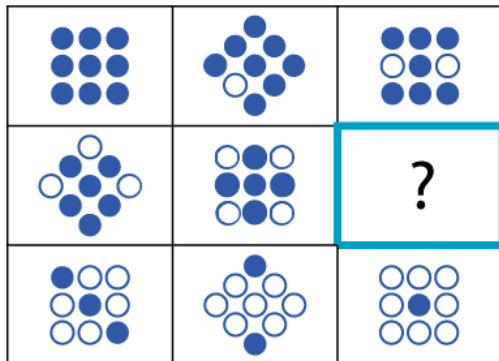
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Rule 1: The four corners composite into the middle shape.

Rule 2: The four sides composite into the middle shape.

Q6 What replaces the question mark?



Rule 1: From left to right, the matrix rotates 45°.

Rule 2: From left to right, the total number of shaded circles per box decreases by one and remains in the same place. The pattern that is left retains some symmetry.

(Alternatively, the number of unshaded circles increases by one).

Q7 What replaces the question mark?

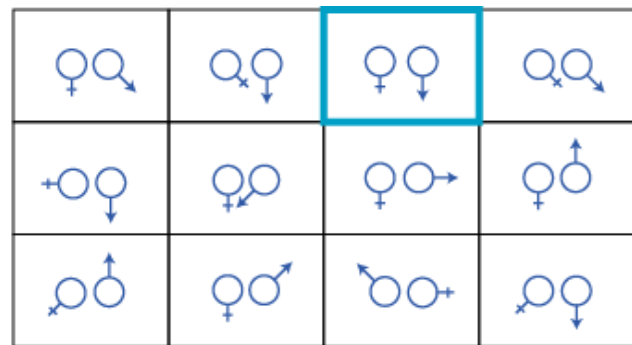
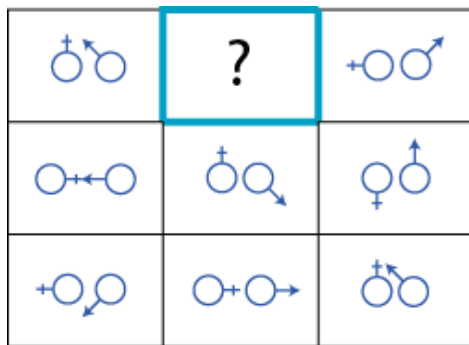
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Rule 1: From left to right, the second symbol becomes the first symbol of the next box. This continues on to the next line

Rule 2: From top to bottom, the first symbol becomes the second symbol of the next box. The bottom box of each column carried on to the next column.

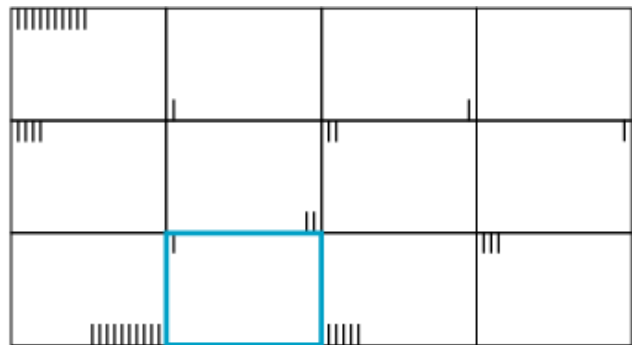
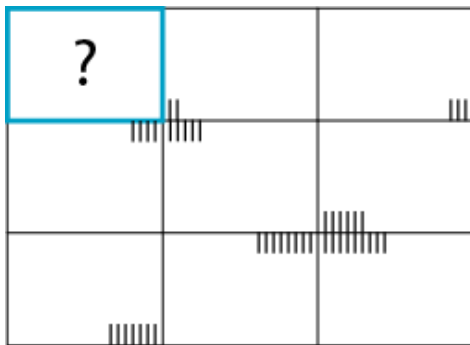
Q8 What replaces the question mark?



Rule 1: From left to right, the cross on the left symbol moves in the sequence: up, down, left, right and repeats. Alternatively, the symbols on the NW-SE diagonal are identical.

Rule 2: From top to bottom, the right hand symbol rotates 45° anticlockwise.

Q9 What replaces the question mark?



Rule 1: From top to bottom, the notches move clockwise to the next corner. Alternatively, from left to right, the notches move to the next corner anticlockwise. This continues onto the next row.

Rule 2: From left to right, the total number of notches in each box increases by one. This continues onto the next row.

Q10 What replaces the question mark?

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| ←↑← | ↙↘↙ | ↖→↖ |

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| →↖→ | ↑↓↖ | ↓↖↗ | ↖↗↙ |
| ↙↑↙ | ↗↙↘ | ↘←→ | ←→↑ |
| ↑→↑ | ↖↓↖ | →↑↘ | ↘↘↖ |

Rule 1: In each column, the middle arrow in the top row is the same as in the bottom row.

Rule 2: In each cell the left and right arrows always point in the same direction.

Q11 What replaces the question mark?

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Rule 1: Each column and row has one box with a single line symbol, one box with a double line symbol, and one box with a triple line symbol.

Rule 2: Each column and row has two lines that are bold.

Q12 What replaces the question mark?

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| → ↓ ↓ ↓ | ↓ ↑ ↑ ← | ← ↓ ↑ ↑ |

| | | | |
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| ↓ ↑ ↑ ← | ← ↑ ↑ ↑ | ↑ ↓ ↑ → | → ↓ ↑ ↓ |
| → ↓ ↑ ↑ | ↑ ↓ ↑ ← | ← → ↓ ↑ | ↑ ↑ ↑ → |
| ↑ ↑ ↑ ← | → ↓ ↓ ↓ | ↑ ↑ ↑ ← | ← ↓ ↑ ↑ |

Rule 1: From left to right, the rightmost and leftmost arrow rotates 90° clockwise.

Rule 2: Each row and column, has one box with both central arrows facing up, one box with both central arrows facing down, and one box with the central arrows facing opposite directions.

End of test