| © Frances Whalley, University of Hertfordshire  Reviewer: Dr Kinga Zaczek, Royal Holloway, University of London | [www.mathcentre.ac.uk](http://www.mathcentre.ac.uk/)  All mccp resources are released under a Creative Commons licence | Creative Commons BY NC SA logo |
| --- | --- | --- |

# sigma Network logo: network for excellence in mathematics and statistics supportmathcentre community project logo

# Non-Verbal Reasoning Practice Test 2

Many employers use psychometric testing in their recruitment process, with a non-verbal reasoning test often being included.

The style of the following test is based on the Inductive Reasoning and Diagrammatic Reasoning tests available on the Assessmentday website [www.assessmentday.co.uk](http://www.assessmentday.co.uk).

In order to ensure that a variety of typical question contexts were included, the following sources were also accessed:

* Practice Aptitude Tests: [www.practiceaptitudetests.com/diagrammatic-reasoning-tests/](http://www.practiceaptitudetests.com/diagrammatic-reasoning-tests/)
* Job Test Prep: [www.jobtestprep.co.uk](http://www.jobtestprep.co.uk)
* Practice Reasoning: [www.practicereasoningtests.com](http://www.practicereasoningtests.com)
* Graduates First**:** [www.graduatesfirst.com](http://www.graduatesfirst.com)
* Forum sites for candidate comments concerning this style of test.

**This test comprises 28 questions and you have 25 minutes to complete it.**

This test includes four styles of question:

* *Completing a sequence*: you are given a sequence of images which follows a logical pattern. You have to identify which option completes the given sequence.
* *Identifying the ‘odd one out’*: you are given a set of images for which all but one have a common feature. You have to identify the image which is the ‘odd one out’.
* *Identifying common features*: you are given two sets of images (Set A and Set B). Each set has a unique common feature. You are given a further image and have to decide which of the two sets, if either, it belongs to.
* *Applying operations*: a given operation (or operations) is applied to an input figure to produce an output figure. You have to identify which option completes the given system.

**www.sigma-network.ac.uk Non-Verbal Reasoning Test 2**

## Completing a Sequence

### Question 1

Which of the images A to E is next in the sequence?

|  |  |  |
| --- | --- | --- |
| **Answer:** |  |  |

?

**C**

**A**

**B**

**D**

**E**

### Question 2

Which of the images A to E is next in the sequence?

**C**

**A**

**B**

**D**

**E**

?

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 3

Which of the images A to E is next in the sequence?

**C**

**A**

**B**

**D**

**E**

?

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 4

Which of the images A to E is next in the sequence?

?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 5

Which of the images A to E goes in the missing part of the sequence?

**T**

**T**

**T**

**T**

**T**

?

**C**

**A**

**B**

**D**

**E**

**T**

**T**

**T**

**T**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 6

Which of the images A to E goes in the missing part of the sequence?

?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 7

Which of the images A to E goes in the missing part of the sequence?

?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

## Identifying the ‘odd one out’

### Question 8

Which of the images A to E is the odd one out?

**C**

**A**

**B**

**D**

**E**



**S**

**F**



**S**

**F**



**S**

**F**



**S**

**F**



**S**

**F**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 9

Which of the images A to E is the odd one out?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 10

Which of the images A to E is the odd one out?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 11

Which of the images A to E is the odd one out?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 12

Which of the images A to E is the odd one out?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 13

Which of the images A to E is the odd one out?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 14

Which of the images A to E is the odd one out?

**C**

**A**

**B**

**D**

**E**

|  |  |
| --- | --- |
| **Answer:** |  |

## Identifying Common Feature

### Question 15

Which set does Figure 1 belong to?

Set A

Set B

Figure 1

c

Tick the correct answer:

Set A

Set B

Neither Set A nor Set B

### Question 16

Which set does Figure 1 belong to?

Set A

Set B

Figure 1

Tick the correct answer:

Set A

Set B

Neither Set A nor Set B

### Question 17

Which set does Figure 1 belong to?

Set A

Set B

Figure 1

Tick the correct answer:

Set A

Set B

Neither Set A nor Set B

### Question 18

Which set does Figure 1 belong to?

Set A

Set B

Figure 1

Tick the correct answer:

Set A

Set B

Neither Set A nor Set B

### Question 19

Which set does Figure 1 belong to?

Set A

Set B

Figure 1

Tick the correct answer:

Set A

Set B

Neither Set A nor Set B

### Question 20

Which set does Figure 1 belong to?

Set A

Set B

Figure 1

Tick the correct answer:

Set A

Set B

Neither Set A nor Set B

### Question 21

Which set does Figure 1 belong to?

Set A

Set B

Figure 1

Tick the correct answer:

Set A

Set B

Neither Set A nor Set B

## Applying Operations

### Question 22

You may need one or more of the following operations to answer this question.

All symbols change shading

The 1st and 3rd symbols change size

All symbols reflect in the vertical axis

All symbols rotate 90° clockwise

Which of the diagrams A to D goes in the empty box below?

**C**

**A**

**B**

**D**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 23

You may need one or more of the following operations to answer this question.

The 1st and 3rd symbols change places

The 1st and 2nd symbols change places

All symbols move one place to the left

All symbols move one place to the right

Which of the diagrams A to D goes in the empty box below?

**D**

**A**

|  |  |
| --- | --- |
| **Answer:** |  |

**C**

**B**

### Question 24

You may need one or more of the following operations to answer this question.

All symbols reflect in the vertical axis

The 1st and 3rd symbols change size

All symbols reflect in the horizontal axis

Middle symbol rotates 90° anticlockwise

Which of the diagrams A to D goes in the empty box below?

**T**

**C**

**A**

**B**

**D**

**T**

**T**

**T**

**T**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 25

You may need one or more of the following operations to answer this question.

All symbols reflect in the horizontal axis

All symbols rotate 90° clockwise

All triangles change shading

The 2nd and 3rd symbols change places

Which of the diagrams A to D goes in the empty box below?

**C**

**A**

**B**

**D**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 26

You may need one or more of the following operations to answer this question.

All symbols rotate 90° clockwise

All squares change shading

The 1st and 3rd symbols change size

The 1st and 2nd symbols change places

Which of the diagrams A to D goes in the empty box below?

**C**

**A**

**B**

**D**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 27

You may need one or more of the following operations to answer this question.

All symbols reflect in the horizontal axis

All symbols rotate 90° clockwise

The 1st and 3rd symbols change places

All symbols move one place to the right

Which of the diagrams A to D goes in the empty box below?

**C**

**A**

**B**

**D**

|  |  |
| --- | --- |
| **Answer:** |  |

### Question 28

You may need one or more of the following operations to answer this question.

All symbols reflect in the vertical axis

All symbols rotate 90° clockwise

All squares change shading

All symbols reflect in the horizontal axis

Which of the diagrams A to D goes in the empty box below?

**C**

**A**

**B**

**D**

|  |  |
| --- | --- |
| **Answer:** |  |

**END OF TEST**

This resource was produced by the **sigma** Network Employability Special Interest Group whose members are:

* Dr Kinga Zaczek, Royal Holloway, University of London
* Frances Whalley, University of Hertfordshire
* David Faulkner, University of Hertfordshire
* Laura Hooke, Loughborough University London