

# Parent Guide



@twinklparents

We're excited to share this activity with you. If you are interested in finding more engaging, fun and interesting activities for you and your children, then check out these links to different areas of the [Twinkl Parents](#) website.

games



crafts



puzzles



experiments



word searches



## What is this resource and how do I use it?

This assessment pack features a quick guide to the non-verbal reasoning tests, as well as an introduction to the codebreaker-style questions your child might encounter. Then, there are two sets of questions for your child to have a go at. We have included an answer guide too so that you can help your child to spot patterns and similarities.

## What skills does this practise?

Non-Verbal Reasoning

Code Breaking

Observation

Logic

## Further Activity Ideas and Suggestions

For more non-verbal reasoning practice, check out this [11+ Non-Verbal Reasoning Analogies Assessment Pack](#) and this [11+ Non-Verbal Reasoning Week of Workouts](#). You can encourage your child to get in some bite-size practice of all the 11+ skills with this set of [11+ Activity Mats](#).

Parents Blog



Twinkl Kids' TV



Homework Help



twinkl

Parents Hub

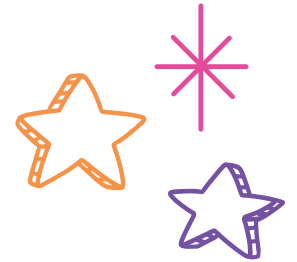


# Non-Verbal Reasoning







The non-verbal reasoning test involves solving problems that are represented with pictures and diagrams. There are a number of different types of questions for the non-verbal reasoning test which could include:

- finding shapes that are like each other based on similarities (for example colours and number of sides);
- finding the odd one out in a group of pictures;
- identifying a shape which has been rotated;
- breaking the code in a sequence of images;
- spotting the missing shape in a sequence;
- identifying the nets of 3D shapes.



Here is an example of the type of question you may get in this section:

1. Which is the correct code for figure 4?

 M B	 R B	 M Q	 ?
1	2	3	4

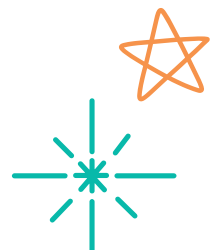
B	Q	B	R
Y	M	Q	Q
A	B	C	D



The answer would be D. The letter common to the first two shapes is B which represents the cross-hatching pattern they both have. Therefore Q represents the solid orange colour. The M is the letter representing the shape of the moon and it comes at the top of the box. Therefore the answer is D (R to represent the irregular dodecagon and the Q at the bottom to represent the solid orange colour).

The non-verbal reasoning test, for many children, can be very intimidating. The best way to prepare for this is through practice. Complete many different type of practice non-verbal reasoning tests with your child and discuss how each question is solved. This will give your child the experience needed to tackle the on-verbal reasoning tests.

For a thorough guide to all aspects of the 11+ test, try our **Survival Guide for Parents/Carers**.



# 11+ Non-Verbal Reasoning Practice Paper





## Break the Code

**Codes** are systems of **words**, **numbers** or **figures** that are used to represent others. **Break the Code** activities are fun, but can be difficult to solve.

The pictures in the boxes have been given letter codes. Each letter describes a different aspect of the picture's appearance. Once you have solved the code, you can use it to work out the answer for the code in the final box.

For example:

Which code should be placed in the final box?

 P S	 R S	 P Q	 ?
1	2	3	4

R	P	W	R
Q	S	Q	S
A	B	C	D

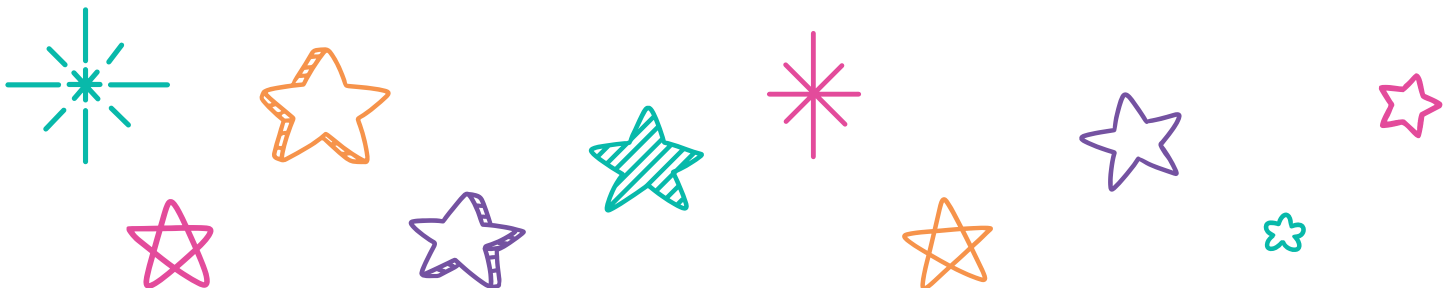
The correct answer is **A**. The two characteristics of figure 1 are that:

- it is a square
- it is orange

Looking at the other figures, we can see that figure 2 is also orange. It also has an S in the code, as does figure 1. This means that S = orange. The bottom letter refers to the colour or pattern of the figure.

We can see that figure 3 is also a square. It has the letter P in the code, as does figure 1. This means that P = square. The top letter refers to the shape in the figure.

This means that Q = vertical stripes. Therefore, the answer for figure 4 is A because R = arrow and Q = vertical stripes.







# 11+ Non-Verbal Reasoning Practice Paper

## Break the Code: Test 1

Which is the correct code for figure 4?





1.

 A C	 A Q	 U C	 ?
1	2	3	4

Q	U	A	U
U	Q	U	A
A	B	C	D

answer





2.

 Y W	 Y H	 G W	 ?
1	2	3	4

W	Z	G	H
Y	H	H	G
A	B	C	D

answer





3.

 D P	 S G	 D G	 ?
1	2	3	4

S	P	D	G
P	S	G	S
A	B	C	D

answer





4.

 M B	 R B	 M Q	 ?
1	2	3	4

B	Q	B	R
Y	M	Q	Q
A	B	C	D

answer





5.

 F D	 F S	 T D	 ?
1	2	3	4

D	T	F	S
F	S	Q	T
A	B	C	D

answer





6.

 S U	 S C	 H U	 ?
1	2	3	4

H	C	H	S
C	H	U	Q
A	B	C	D

answer





7.

 H S	 C S	 H G	 ?
1	2	3	4

R	H	G	C
G	C	S	G
A	B	C	D

answer

8.

 L T	 L S	 H T	 ?
1	2	3	4





L	H	S	T
H	S	H	H
A	B	C	D

answer



# 11+ Non-Verbal Reasoning Practice Paper: Break the Code: Test 1 Answers

1.

 A C	 A Q	 U C	 ?
1	2	3	4





Q	U	A	U
U	Q	U	A
A	B	C	D

answer

B
---

The top letter of the code represents the colour or pattern. A = orange and U = chequered.  
The bottom letter of the code represents the shape. C = smile and Q = heart.

2.

 Y W	 Y H	 G W	 ?
1	2	3	4





W	Z	G	H
Y	H	H	G
A	B	C	D

answer

C
---

The top letter of the code represents the colour. Y = purple and G = white.  
The bottom letter of the code represents the shape. W = arrows and H = pentagon.

3.

 D P	 S G	 D G	 ?
1	2	3	4





S	P	D	G
P	S	G	S
A	B	C	D

answer

A
---

The top letter of the code represents the shape. D = triangle and S = circle.  
The bottom letter of the code represents the colour or pattern. P = dots and G = purple.

4.

 M	 R	 M	 ?
B	B	Q	
1	2	3	4

B	Q	B	R
Y	M	Q	Q
A	B	C	D





answer

**D**

The top letter of the code represents the shape. M = moon and R = cross.

The bottom letter of the code represents the colour or pattern. B = chequered and Q = purple.

5.

 F	 F	 T	 ?
D	S	D	
1	2	3	4

D	T	F	S
F	S	Q	T
A	B	C	D





answer

**B**

The top letter of the code represents the shape. F = circle and T = triangle.

The bottom letter of the code represents the colour or pattern. D = diamonds and S = stripes.

6.

 S	 S	 H	 ?
U	C	U	
1	2	3	4

H	C	H	S
C	H	U	Q
A	B	C	D





answer

**A**

The top letter of the code represents the shape. S = diamond and H = star.

The bottom letter of the code represents the colour or pattern. U = dots and C = chequered.

7.

 H S	 C S	 H G	 ?
1	2	3	4

R	H	G	C
G	C	S	G
A	B	C	D





answer

**D**

The top letter of the code represents the shape. H = hexagon and C = circle.

The bottom letter of the code represents the colour or pattern. S = dots and G = purple.

8.

 L T	 L S	 H T	 ?
1	2	3	4

L	H	S	T
H	S	H	H
A	B	C	D

answer

**B**

The top letter of the code represents the shape. L = standard triangle and H = upside-down triangle.





The bottom letter of the code represents the orientation of the lines. T = horizontal and S = vertical.

# 11+ Non-Verbal Reasoning Practice Paper

## Break the Code: Test 2

Which is the correct code for figure 4?





1.

 A B	 O B	 A G	 ?
1	2	3	4

O	A	B	G
G	B	A	B
A	B	C	D

answer





2.

 H R	 H L	 D R	 ?
1	2	3	4

D	H	D	Q
R	L	L	B
A	B	C	D

answer





3.

 T L	 O L	 T H	 ?
1	2	3	4

O	O	L	L
B	H	O	T
A	B	C	D

answer





4.

 R F	 R T	 H F	 ?
1	2	3	4

F	T	G	H
T	H	F	T
A	B	C	D

answer





5.

 D S	 Y T	 Y S	 ?
1	2	3	4

D	Y	D	S
F	D	T	T
A	B	C	D

answer





6.

 S N	 S G	 D N	 ?
1	2	3	4

D	N	G	S
G	G	U	N
A	B	C	D

answer





7.

 C L	 V H	 V L	 ?
1	2	3	4

L	C	H	H
C	H	V	C
A	B	C	D

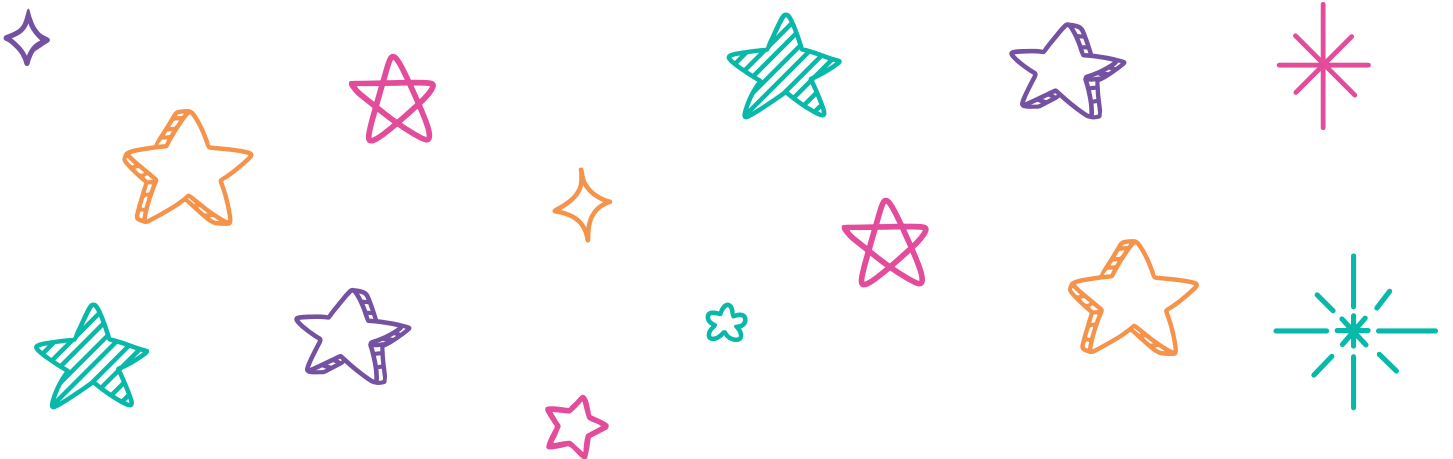
answer

8.

 K B	 R M	 R B	 ?
1	2	3	4





K	M	R	M
M	B	M	K
A	B	C	D

answer



# 11+ Non-Verbal Reasoning Practice Paper: Break the Code: Test 2 Answers

1.

	A B		O B		A G		?
1		2		3		4	

O	A	B	G
G	B	A	B
A	B	C	D





answer

A
---

The top letter of the code represents the colour. A = purple and O = white.

The bottom letter of the code represents the shape. B = ring and G = curve.

2.

	H R		H L		D R		?
1		2		3		4	

D	H	D	Q
R	L	L	B
A	B	C	D





answer

C
---

The top letter of the code represents the pattern. H = stripes and D = dots.

The bottom letter of the code represents the shape. R = curved cross and L = heart.

3.

	T L		O L		T H		?
1		2		3		4	

O	O	L	L
B	H	O	T
A	B	C	D





answer

B
---

The top letter of the code represents the shape. T = triangles and O = octagon.

The bottom letter of the code represents the colour or pattern. L = purple and H = stripes.

4.

 R F	 R T	 H F	 ?
1	2	3	4

F	T	G	H
T	H	F	T
A	B	C	D





answer

**D**

The top letter of the code represents the shape. R = quadrilateral and H = smile.

The bottom letter of the code represents the colour. F = white and T = purple.

5.

 D S	 Y T	 Y S	 ?
1	2	3	4

D	Y	D	S
F	D	T	T
A	B	C	D





answer

**C**

The top letter of the code represents the colour or pattern. D = dots and Y = orange.

The bottom letter of the code represents the shape. S = star and T = triangle.

6.

 S N	 S G	 D N	 ?
1	2	3	4

D	N	G	S
G	G	U	N
A	B	C	D





answer

**A**

The top letter of the code represents the shape. S = star and D = diamond.

The bottom letter of the code represents the colour. N = purple and G = orange.

7.

 C	 V	 V	 ?
L	H	L	
1	2	3	4

L	C	H	H
C	H	V	C
A	B	C	D





answer

**B**

The top letter of the code represents the pattern. C = chequered and V = stripes.

The bottom letter of the code represents the shape. L = arrow and H = heart.

8.

 K	 R	 R	 ?
B	M	B	
1	2	3	4

K	M	R	M
M	B	M	K
A	B	C	D

answer

**A**

The top letter of the code represents the shape. K = hexagon and R = ring.

The bottom letter of the code represents the colour. B = orange and M = white.

Disclaimers: We hope you find the information on our website and resources useful. As far as possible, the contents of this resource are reflective of current professional research. However, please be aware that every child is different and information can quickly become out of date. The information given here is intended for general guidance purposes only and may not apply to your specific situation.