11+ Non-Verbal Reasoning Practice Paper



Read the following with your child:

- 1. This is a multiple-choice paper in which you have to mark your answer to each question on the separate answer sheet. You should mark only one answer for each question.
- 2. Draw a firm line clearly through the rectangle next to your answer like this:

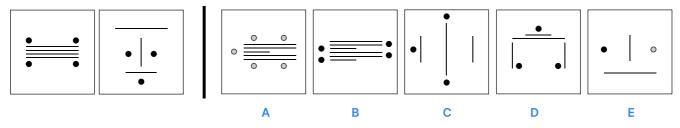
 If you make a mistake, rub it out as completely as you can and put in your new answer.
- 3. There are four sections in this paper. Each section starts with an explanation of what to do, followed by a worked example and two practice questions.

 Solutions to the example and practice questions are provided.
- 4. Be sure to keep your place in the correct section on the answer sheet. Mark your answer in the box that has the same number as the question in the booklet.
- 5. You may find some of the questions difficult. If you cannot do a question, do not waste time on it but go on to the next. If you are not sure of an answer, choose the one you think is best.
- 6. Work as quickly and as carefully as you can.

Section 1

Look at the example question below. On the left, there are two figures that are alike. On the right there are five more figures: one of these is **most like** the two figures on the left and its letter has been marked on your answer sheet.

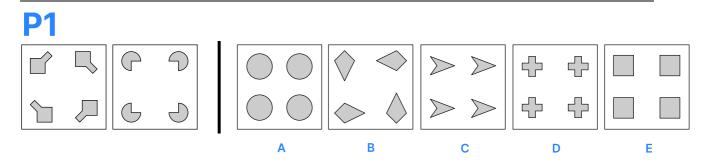
Example



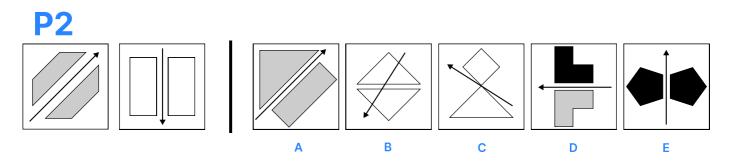
Answer: C

The two shapes on the left are alike in having the same number of circles as they have lines. In both cases, all circles are black.

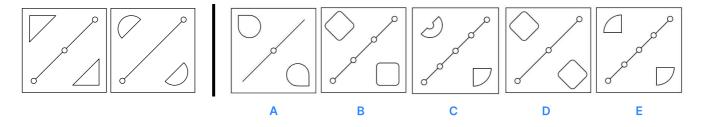
Now do the two practice questions below.

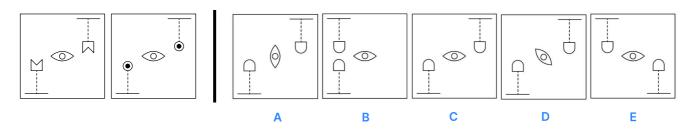


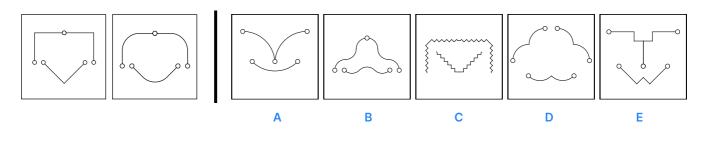
The two figures on the left show a grey shape which is rotated 90° clockwise as we move clockwise around the corners. In both cases, the corner shapes have only one line of symmetry.

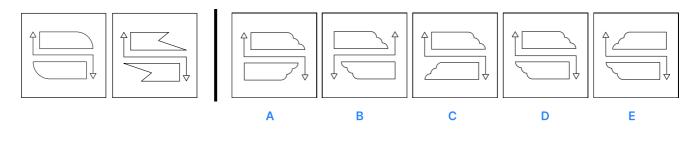


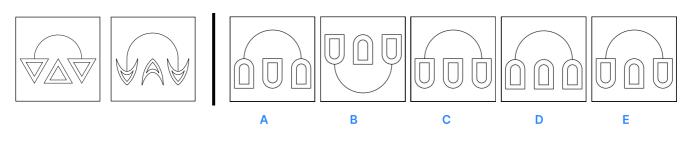
The two figures on the left show two identical shapes and an arrow, both shapes being of the same colour. The arrow acts as a line of symmetry, the shapes being reflected across it.

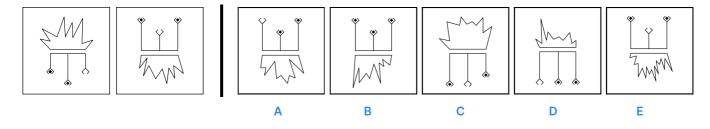


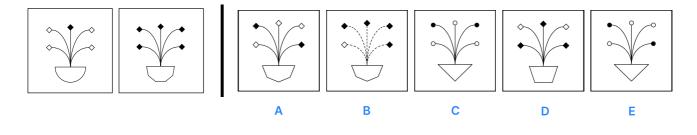


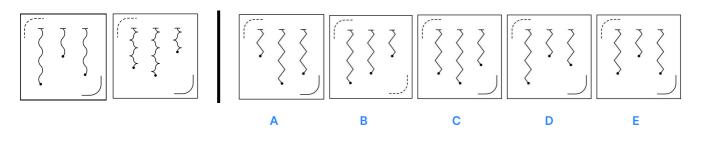


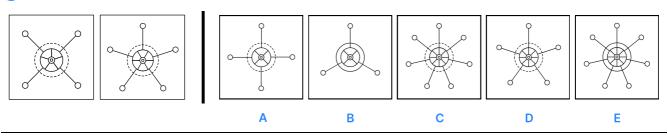


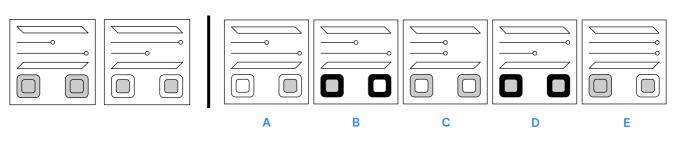


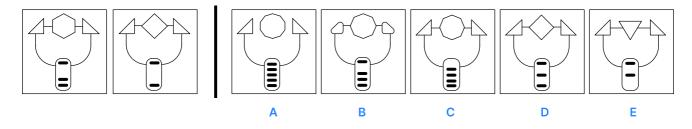


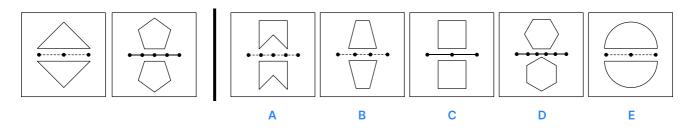


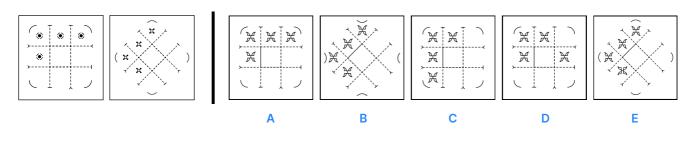


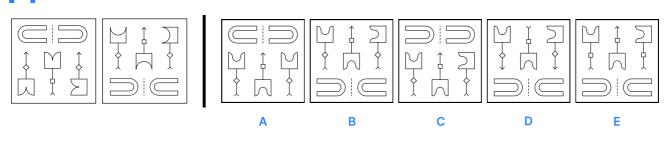


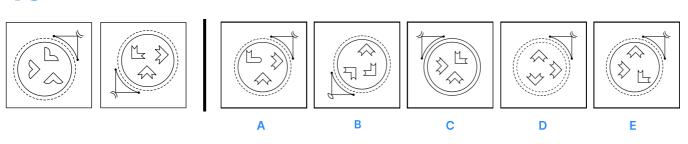


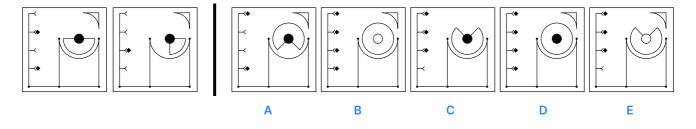


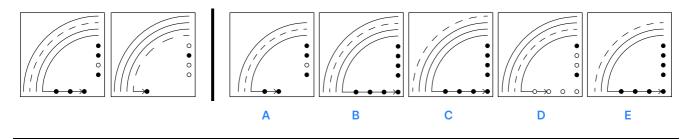


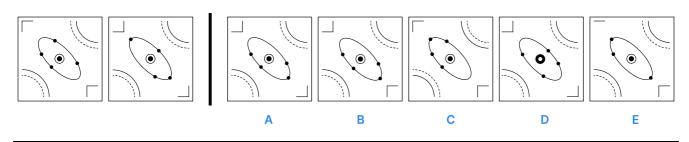


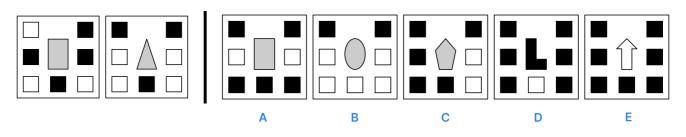


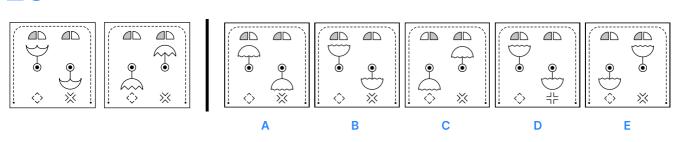








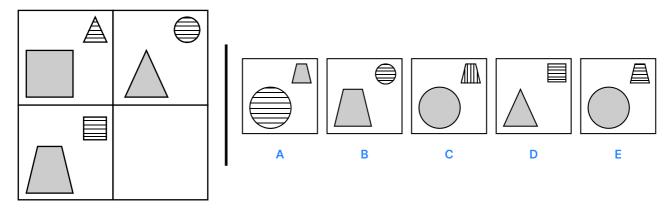




Section 2

Look at the example question below. On the left, there is a matrix which contains an empty square. One of the five figures on the right should fill the empty square. Its letter has been marked on your answer sheet.

Example

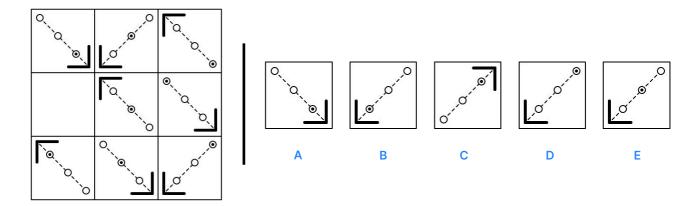


Answer: E

In the example above, all of the large shapes are grey and all of the small shapes are horizontally striped. Moving clockwise around the matrix, the small striped shape becomes the large dotted shape in the next box. To complete the matrix, the empty square needs to contain a large grey circle and a small horizontally-striped trapezium, so the correct answer must be E.

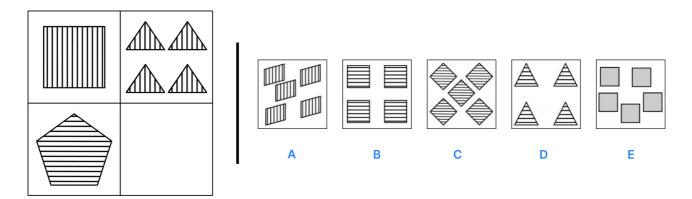
Now do the two practice questions.

P1

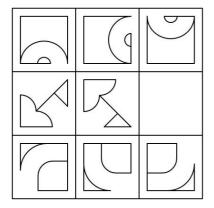


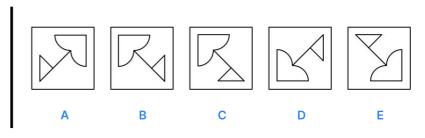
In the matrix above, the black dots are positioned differently depending on which column they are in. In the left-hand column they are positioned in the circle nearest to the arrowhead, in the middle column they are positioned in the middle circle and in the right-hand column they are positioned in the circle that is furthest from the arrowhead. The missing image is in the left-hand column. Moreover, along each row and column, each arrow points in a different direction to each other. The only arrow that is not seen along the row/column of the empty box is an arrow pointing towards the bottom-left corner.

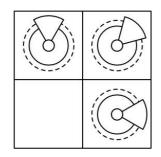
P2



In the example above, each row contains shapes with the same pattern, and each row contains a large shape on the left and a number of smaller shapes on the right, with the smaller shapes having one less side than the large one. Moreover, the number of smaller shapes is the same as the number of sides the large shape has.











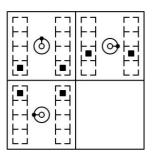




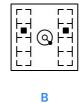


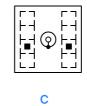
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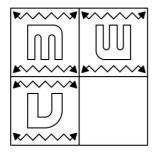






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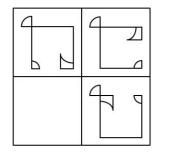




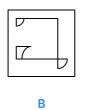


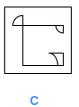












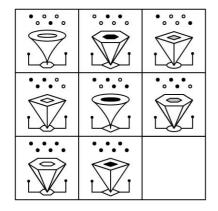


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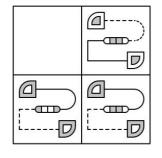




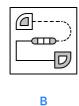
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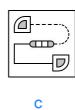
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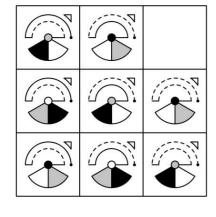


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В

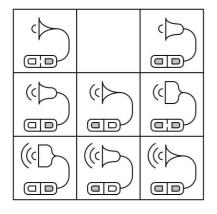




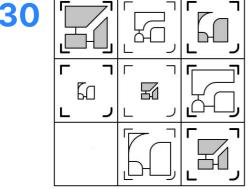


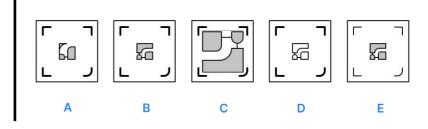
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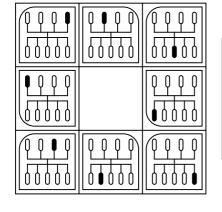
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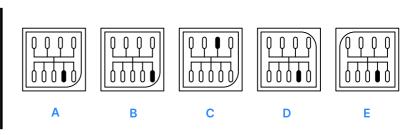


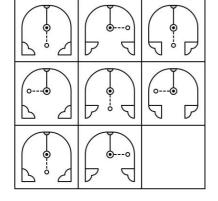
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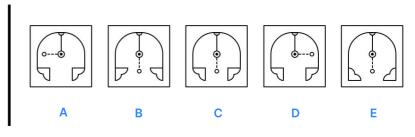


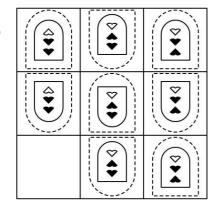
















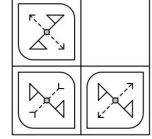


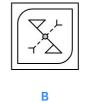


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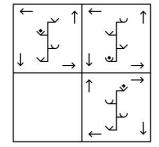




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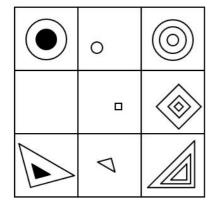
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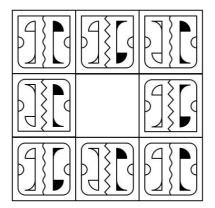


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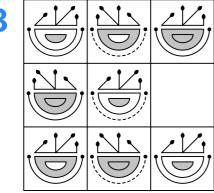
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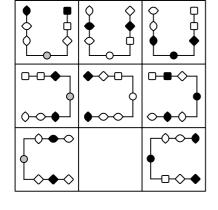


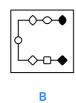


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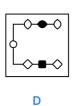
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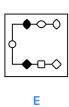
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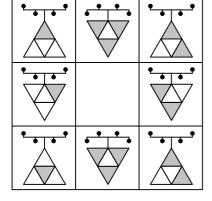




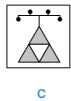




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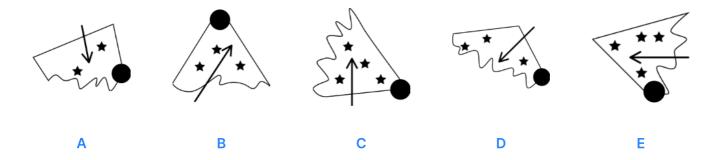
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Section 3

In the example below, there are five figures. One of these figures is **most unlike** the other four and its letter has been marked on your answer sheet.

Example

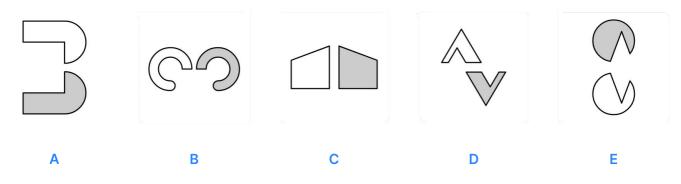


Answer: A

In this example, all of the large white shapes have two straight sides and one wavy side, except for one. Option A has three straight sides and one wavy side, which makes it the odd one out.

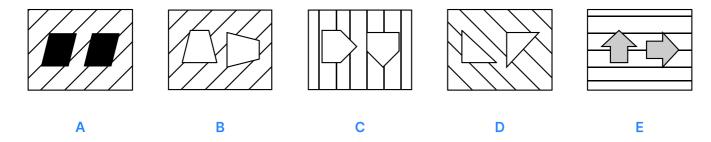
Now do the two practice questions below.

P1

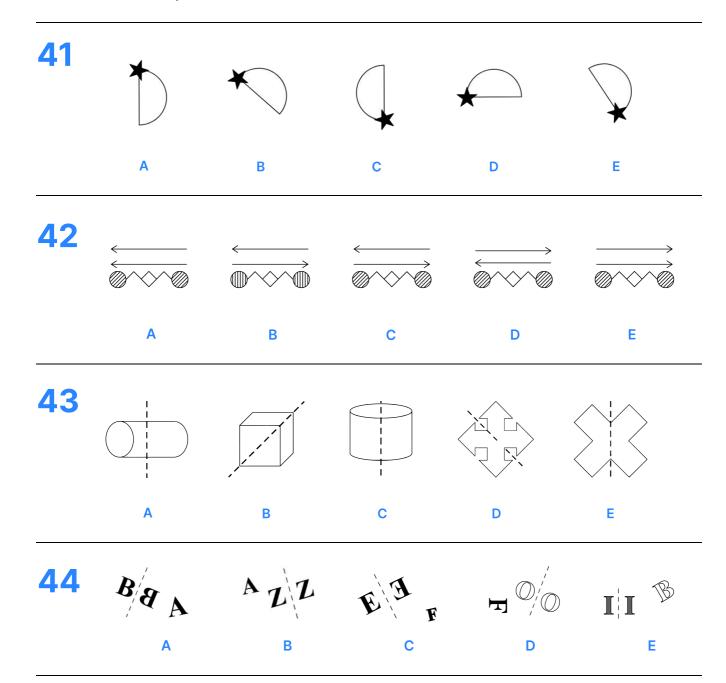


In this question, all the figures are either vertical or horizontal reflections of each other except for one.

P2



In this question, in all but one of the options, the shape on the right is a 90° clockwise rotation of the shape on the left.





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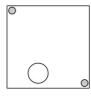


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Α

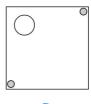


В

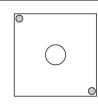
В



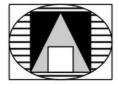
С



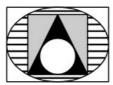
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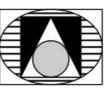
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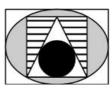
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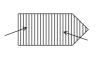


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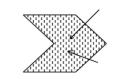
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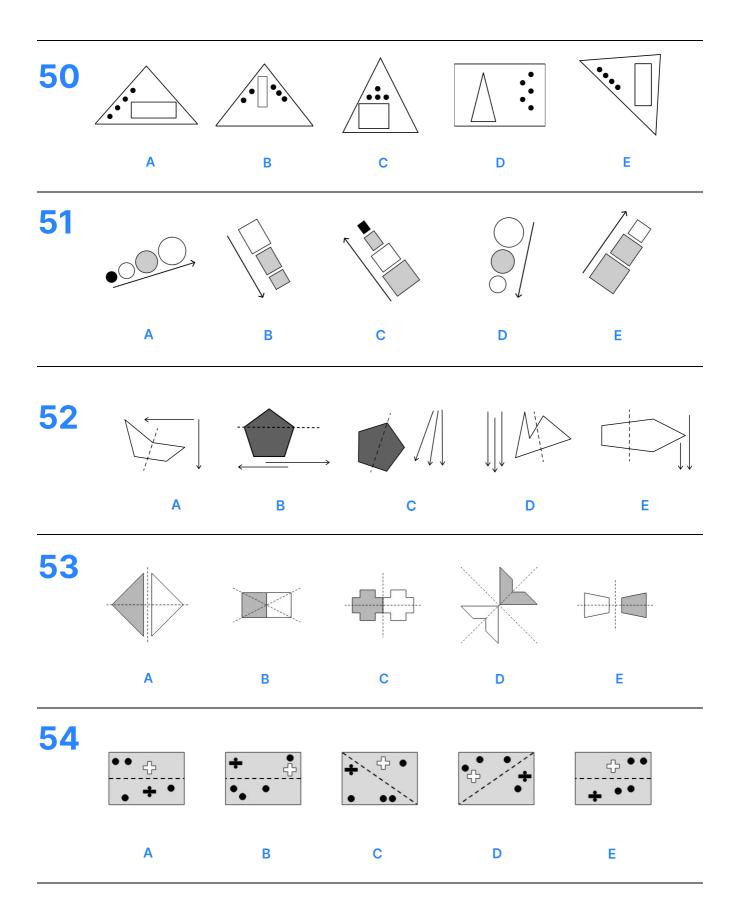
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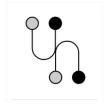


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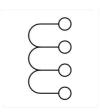


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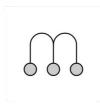
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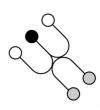
В



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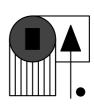
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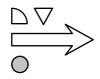


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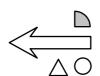
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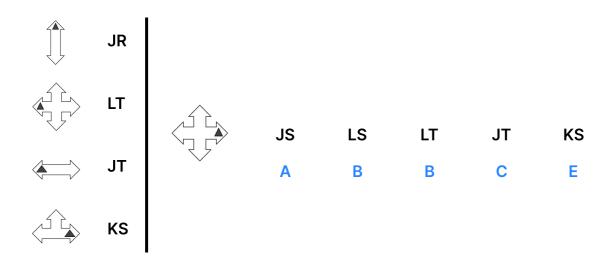
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Section 4

To answer these questions you have to work out a code. On the left of the example below are some shapes and the codes that go with them. You must decide how the letters in the code go with the shapes. Then, find the correct code for the **test shape** from the set of five codes on the right. Its letter has been marked on your answer sheet.

Example

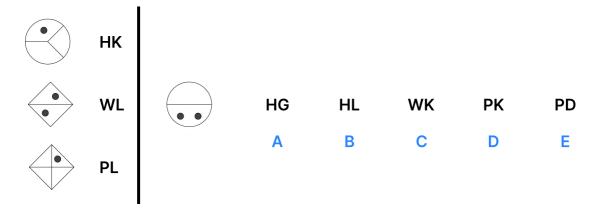


Decide what the code letters mean. The first letter represents the total number of arrowheads in the image. 'J' codes for two, 'L' codes for four and 'K' codes for three. The second letter represents the position of the triangle within the arrow. 'R' codes for 'top', 'T' codes for 'left-hand side' and 'S' codes for 'right-hand side'. Therefore the test shape must have an 'L' code for 'four-headed arrow' and a 'S' code for 'right-hand side'. So the answer is LS.

Now do the two practice questions.

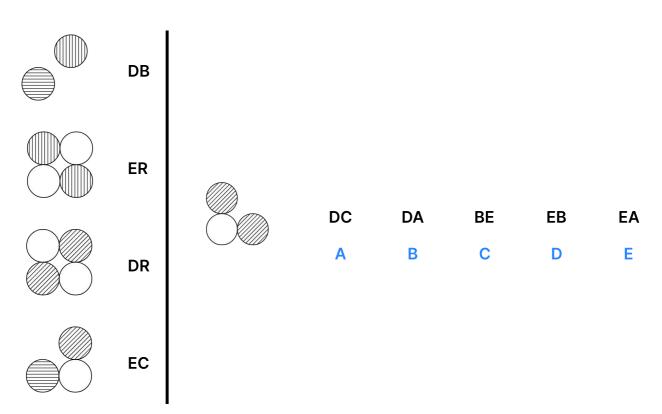
Remember there is a new code for each question.

P1



In this question, the first letter represents the number of parts the image is split into. For example, 'H' in the first image codes for 'three'. The second letter represents the type of shape in the image. 'K', for instance, codes for 'circle'.

P2



In this question, the first letter represents whether or not the image is symmetrical, while the second letter represents the number of circles in the image.



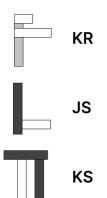






LE NF MF DM MD E Α В C D

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JT JR KT LR LS C E В D



ΑI

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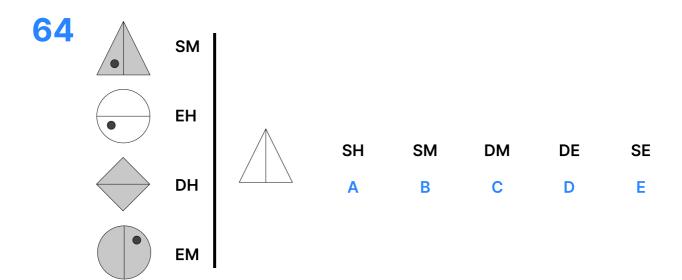
LT

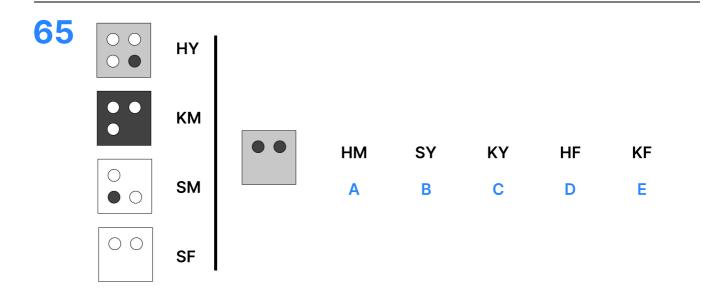


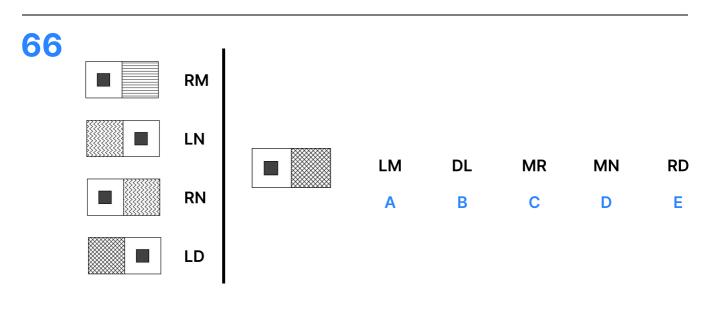




NN NB ΑN ΑI BN В C D E











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CO

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69



DG



EΗ СН В

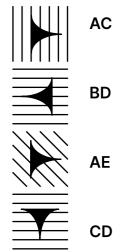
EG

C

DI

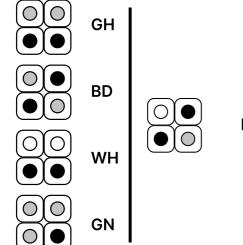
D

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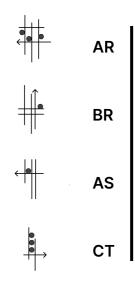
CC AD CE EC BE
A B C D E

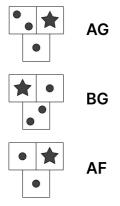
71



BH BS WS GN BN
A B C D E

72





CF

CG BF В

FΒ C

GA

AΒ

E D







CG ВΙ CA Α В C

AH

D

E

CI

75









ОН OG В

МН

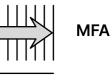
C

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OGA



NGA OGB MGA MFB NFA
A B C D E

77



JRA



LTA



JRB



KRB



LTS KRA JTA LSA KTA
A B C D E

78



ARN



ASO



BRO

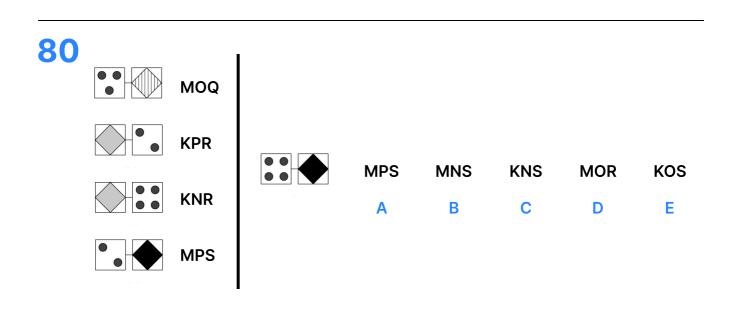


ATP



BSO BSN ASP BSP ARP
A B C D E





Page 28 End of Test



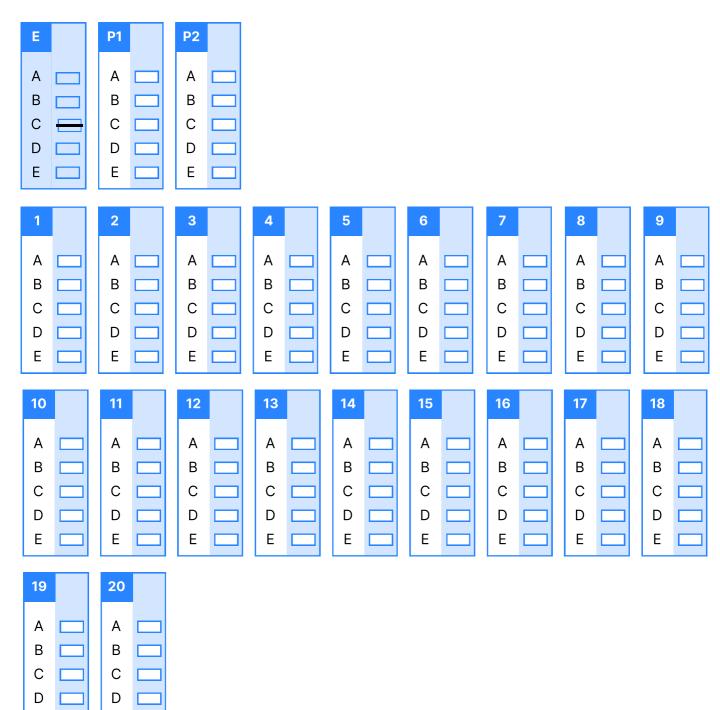
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atomlearning.com



Draw a line clearly through the rectangle next to your answer, like —.

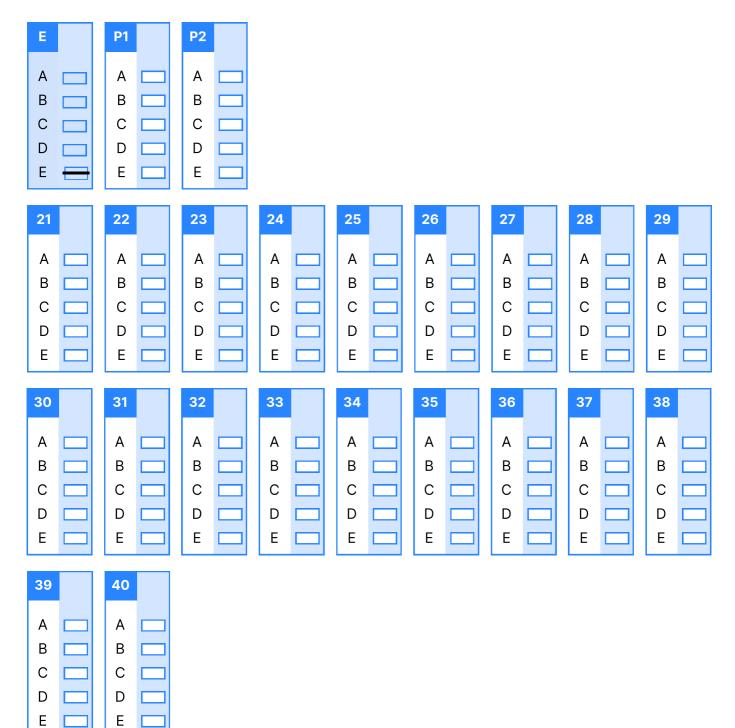
The answer to the example question has already been marked in the first box.





Draw a line clearly through the rectangle next to your answer, like —.

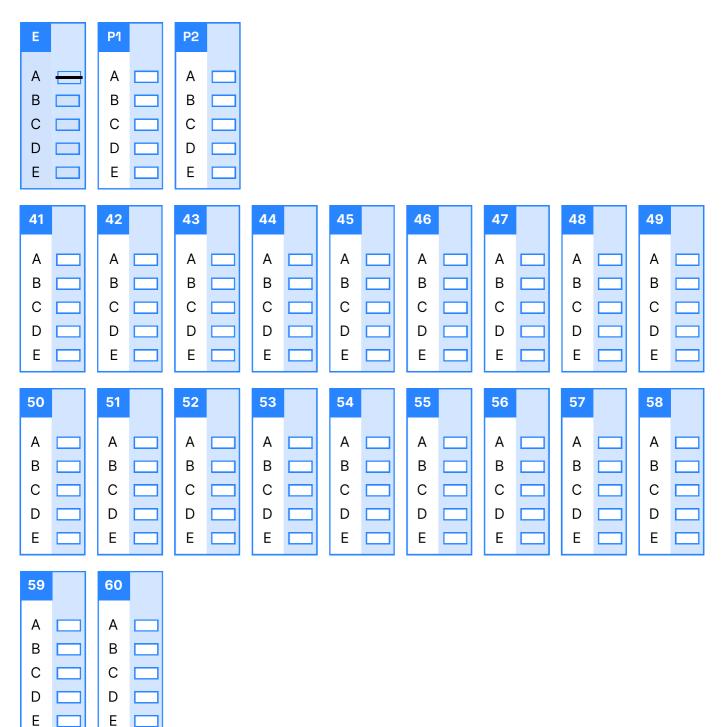
The answer to the example question has already been marked in the first box.





Draw a line clearly through the rectangle next to your answer, like —.

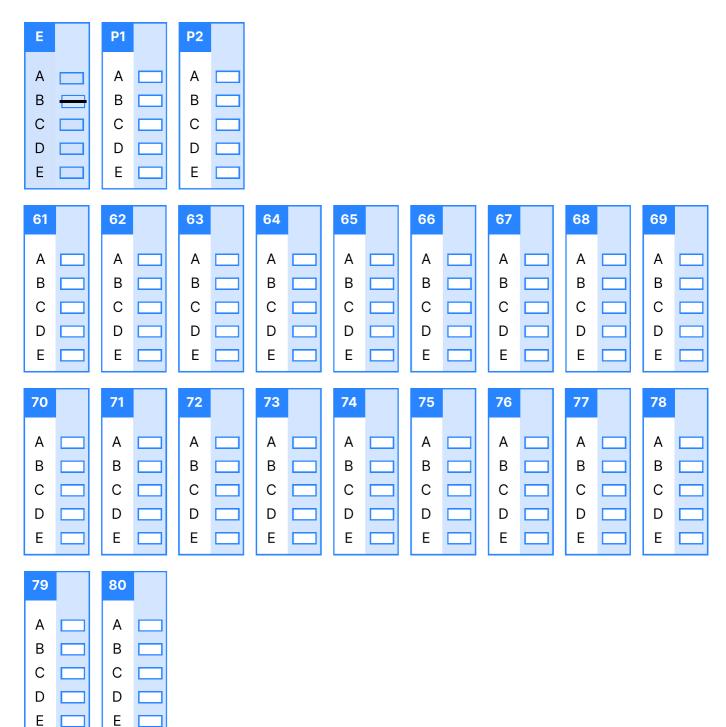
The answer to the example question has already been marked in the first box.





Draw a line clearly through the rectangle next to your answer, like —.

The answer to the example question has already been marked in the first box.





About this test

This is a multiple-choice paper designed to familiarise your child with the types of questions they will see in an 11 plus NVR exam.

There are 80 questions which gradually increase in difficulty. It covers topics including matrices, match to a pair and find the odd one out.

What you'll need

- Printed question booklet and answer sheet
- Pencil
- Rubber
- Scrap paper
- Timer

How to prepare

Your child should take the test at a time when they feel alert. Choose a quiet area where they can work comfortably without distractions.

Talk with your child about the reasons for taking the practice test. Explain that this paper looks similar to the one they will see in the real 11 plus exam. The questions and answer sheet will help them know what to expect on exam day.

Explain that they might find some of the questions difficult, especially as they progress through the paper. They should work as quickly and carefully as possible.

If they get stuck on a question, they should move on to the next one. If they have time left over at the end, they can go back to any skipped questions. If they have more time left over, they should check their answers.

Page 1 of 2

11+ NVR Practice Paper Parent's Guide



Taking the test

Give your child a scrap sheet of paper and encourage them to use it for any rough working out.

Your child should mark their answers on the **Answer Sheet**, not in the test booklet. This is good practice for the real exam which will have a separate answer sheet like this.

On the Answer Sheet, your child should record their answers by drawing a clear line through the answer box with a pencil. Mistakes should be rubbed out and not crossed out. The real exam is marked by a computer, so it would not be able to interpret a crossed-out answer.

Timing

It's helpful for children to get comfortable with taking tests under timed conditions. You should allow them **one hour** to take this test. Only start timing when they have finished reading the instructions. In the real 11+ test, the example and practice questions are not timed; only the numbered questions are timed. So should you wish to time your child in completing the numbered questions, allow them **10 minutes for each section**.

If they haven't finished the test after one hour, circle the question they got to, then let them carry on. When you mark the test you'll be able to see how many questions they got right in one hour and how many overall. This will show you whether your child needs to work on their speed, accuracy, or both.

Marking

You can find the answers on the **Answer Key**. Give your child one mark for each correct answer (no half-marks are available in the real test!). Do not take marks off for wrong answers.

Take time to discuss your child's results in a positive and encouraging way. Work through the corrections, what they would do differently next time, and pick out key areas to revise next.

Page 2 of 2

11+ NVR Answer Key



P1. B

P2. E

1. A

2. **C**

3. **B**

4. D

5. **E**

6. **A**

7. **D**

8. A

9. C

10. D

11. **C**

12. B

13. A

14. **B**

15. **E**

16. D

17. **C**

18. A

19. **C**

20. **B**

P1. B

P2. C

21. A

22. **E**

23. D

24. C

25. A

26. **B**

27. **C**

28. **B**

29. **E**

30. **B**

31. A

32. C

33. D

34. A

35. **E**

36. D

37. A

38. B

39. **E**

40. C

P1. D

P2. A

41. **E**

42. B

43. A

44. B

45. C

11+ NVR Practice Paper Answer Key



46. C

47. A

48. B

49. **E**

50. D

51. A

52. C

53. B

54. B

55. **E**

56. A

57. D

58. C

59. E

60. B

P1. C

P2. A

61. D

62. B

63. A

64. B

65. D

66. **E**

67 **B**

68. A

69. A

70. C

71. **E**

72. B

73. A

74. E

75. **B**

76. C

77. D

78. D

79. A

80. B