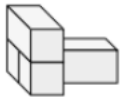
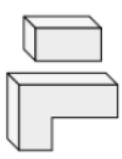
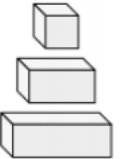
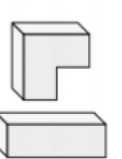
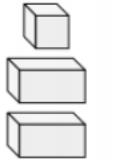

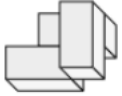
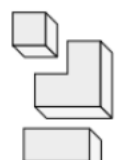
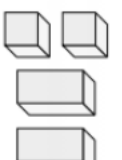
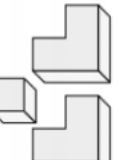
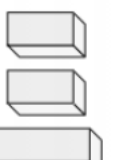




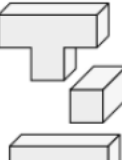
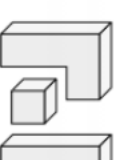
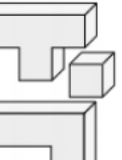
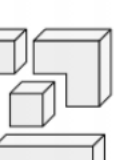
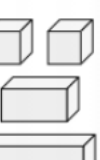
Test 8

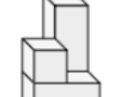
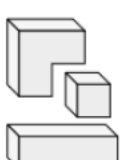
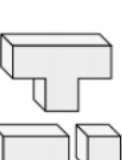



You have **10 minutes** to do this test. Circle the letter for each correct answer.

Work out which set of blocks can be put together to make the 3D figure on the left.

1.  |     

2.  |     

3.  |     

4.  |     

Work out which option is the 3D figure viewed from the **left**.

5.  |     




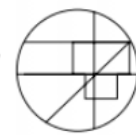
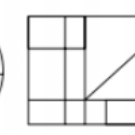
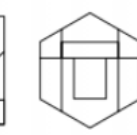



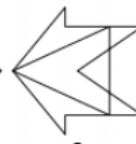
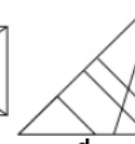
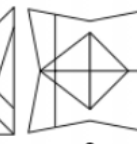

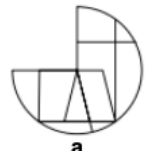
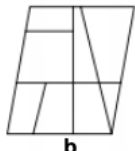

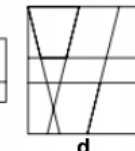
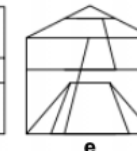

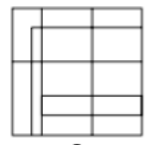

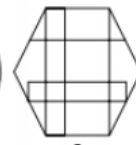
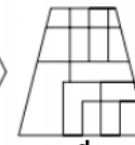
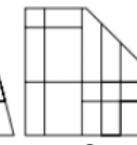





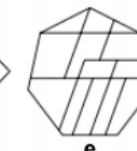
6.  |     

7.  |     

8.  |     

9.  |     

Work out which option contains the hidden shape shown. It should be the same size and orientation.

10.  |     
11.  |     
12.  |     
13.  |     
14.  |     

10

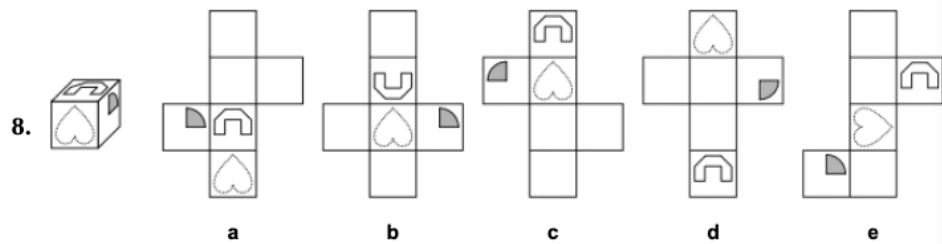
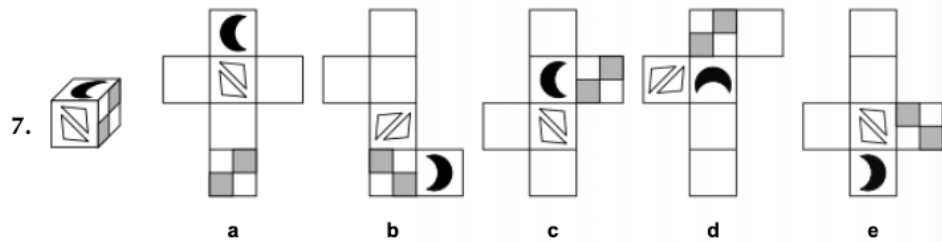
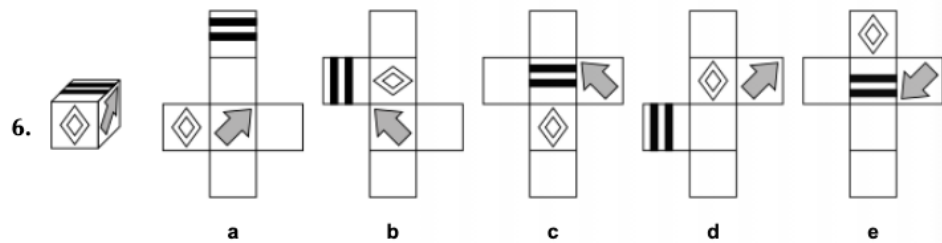
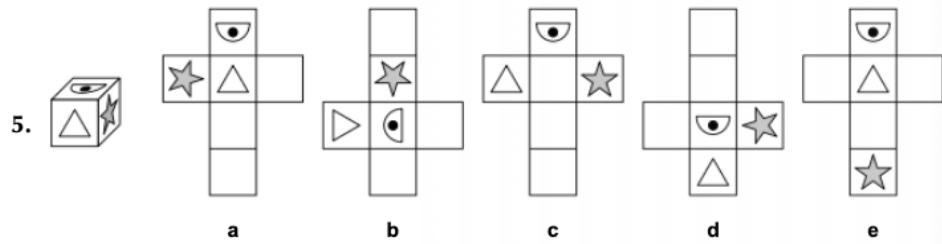
Test 9

You have **10 minutes** to do this test. Circle the letter for each correct answer.

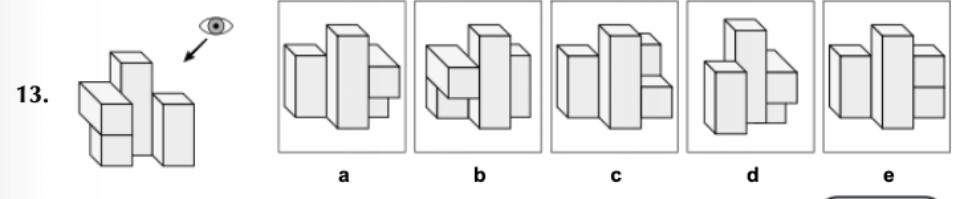
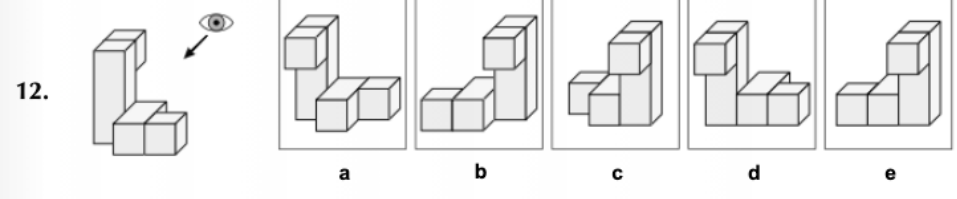
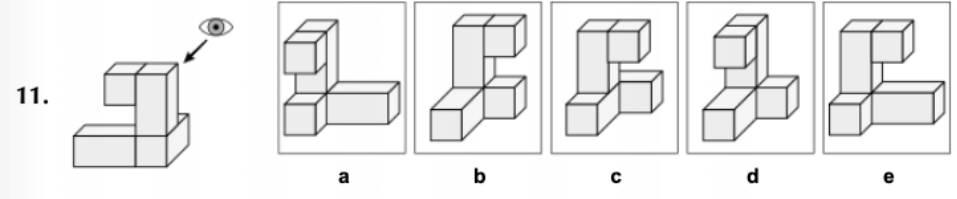
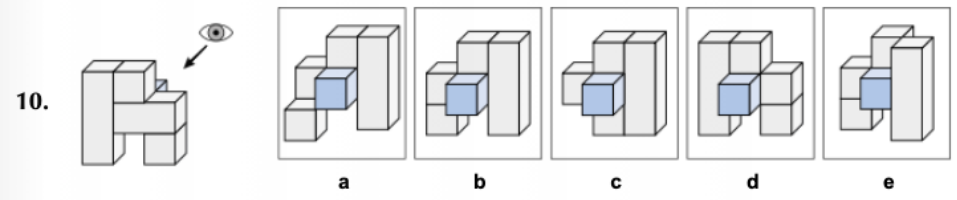
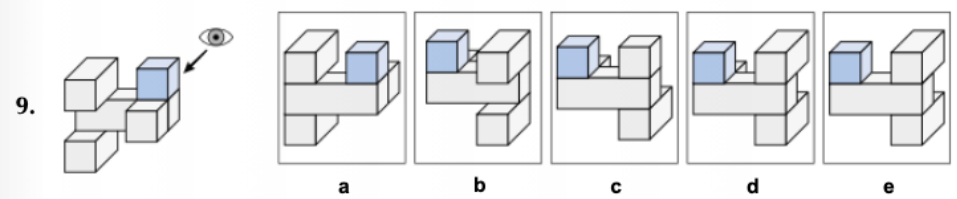
The figures on the left show different views of the same cube. All the cube faces are different. Work out which of the options should replace the blue cube face.

1.    |     
2.    |     
3.    |     
4.    |     

Work out which of the five partial nets can be folded to make the cube on the left.



Work out which option is the 3D figure viewed from the **back**.



Test 8 — pages 32-34

1. B

The block at the bottom of set B goes at the back of the figure on the bottom. The block in the middle of set B is rotated 90 degrees left-to-right and goes on the left of the figure at the top. The cube in set B goes at the front of the figure on the bottom.

2. B

The cubes in set B go at the back of the figure at the top. One of the two remaining blocks in set B goes beneath them. The last block in set B is rotated 90 degrees in the plane of the page and goes at the front of the figure.

3. D

The block at the bottom of set D is rotated 90 degrees in the plane of the page and goes at the front of the figure. The block at the top right of set D is rotated 90 degrees anticlockwise in the plane of the page and goes at the back of the figure on the right. The two cubes in set D are arranged to the left of it.

4. E

The block at the top of set E is rotated 90 degrees anticlockwise in the plane of the page, then 90 degrees left-to-right. It then goes at the back of the figure. The remaining two blocks in set E are arranged in front of it.

5. E

There should be a block two cubes long going into the page on the bottom right of the figure, which rules out options A and C. The whole figure should be three cubes wide, which rules out options B and D.

6. B

There should be a vertical block at the back left of the figure, which rules out options A and D. The whole figure should be two cubes wide, which rules out options C and E.

7. A

There should be a block two cubes long at the top right of the figure, which rules out options C, D and E. There shouldn't be a gap in the middle of the figure at the bottom, which rules out option B.

8. B

There should be a block three cubes long coming out of the page on the bottom left of the figure, which rules out options A and D. The whole figure should be three cubes wide, which rules out options C and E.

9. B

There should be a block two cubes long at the bottom of the figure, which rules out option E. There should be a block three cubes long going into the page on the right-hand side of the figure, which rules out option C. The block at the top of the figure should be in the middle of the block that is three cubes long, which rules out option D. There shouldn't be a block at the very back of the figure under the block that is three cubes long, which rules out option A.

10. C



11. B



12. A



13. E



14. D



Test 9 — pages 35-37

1. A

The third cube view is the first cube view rotated 90 degrees away from you, top-to-bottom, and then 90 degrees right-to-left. So the stripes are on the right.

2. C

The third cube view is the first cube view rotated 180 degrees in the plane of the page, and then 90 degrees away from you, top-to-bottom. So the black zigzag is on the front.

3. B

The first cube view is the second cube view rotated 90 degrees towards you, top-to-bottom, then 90 degrees left-to-right. So the grey arrow is at the back. The third cube view is the first cube view rotated 90 degrees towards you, top-to-bottom, and then 90 degrees left-to-right. So the grey arrow is on the top.

4. E

The second cube view is the first cube view rotated 180 degrees towards you, top-to-bottom, so the triangles are on the bottom. The third cube view is the second cube view rotated 90 degrees away from you, top-to-bottom, and then 90 degrees left-to-right. So the triangles are on the right.

5. D

Options A and B are ruled out because if they are folded so that the triangle is on the front and the semicircle is on the top, then the star would be on the left. Options C and E are ruled out because the star and the triangle are on opposite sides.

6. C

Options A and D are ruled out because the arrow and the stripes are on opposite sides. Options B and E are ruled out because if they are folded so that the diamond is on the front and the stripes are on the top, then the arrow would be on the left.

7. B

Option A is ruled out because the triangles and grey squares are on opposite sides. Option C is ruled out because the grey squares have been rotated. Options D and E are ruled out because if they are folded so that the triangles are on the front and the crescent is on the top, then the grey squares would be on the left.

8. D

Options A and C are ruled out because if they are folded so that the heart is on the front and the arch is on the top, then the quarter-circle would be on the left. Option B is ruled out because the arch has been rotated. Option E is ruled out because the arch and quarter-circle are on opposite sides.

9. D

There should be a blue cube on the left of the figure, which rules out option A. There should be two blocks going into the page on the right of the figure, which rules out options B and C. There should be a single cube at the back of the figure on the left, which rules out option E.

10. B

There should be a cube underneath another block on the left of the figure, which rules out options A, C and D. There should be a vertical block three cubes tall on the right of the figure at the back, which rules out option E.

11. E

The figure should be three cubes wide, which rules out options B, C and D. There should be a cube at the top of the figure at the back, which rules out option A.

12. C

There should be a vertical block and a cube on the right of the figure, which rules out options A and D. There should be a cube at the back of the figure on the left, which rules out options B and E.

13. A

There should be a vertical block two cubes tall on the left of the figure at the back, which rules out options B and D. There should be a horizontal block two cubes long going into the page on the right of the figure, with a cube beneath it, which rules out options C and E.