

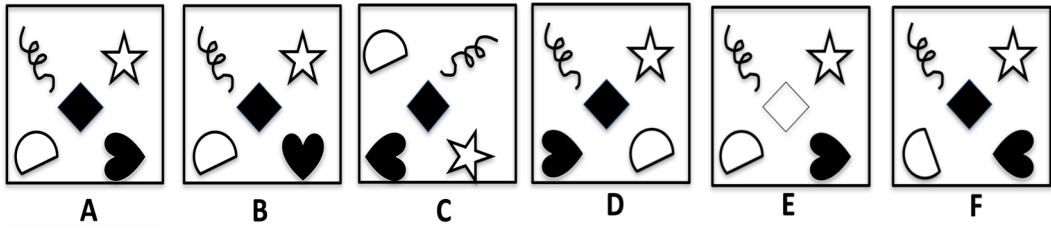
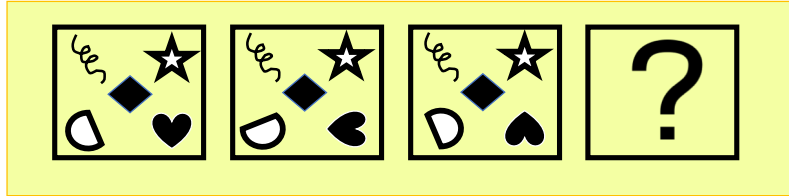
Non-Verbal Reasoning

11+

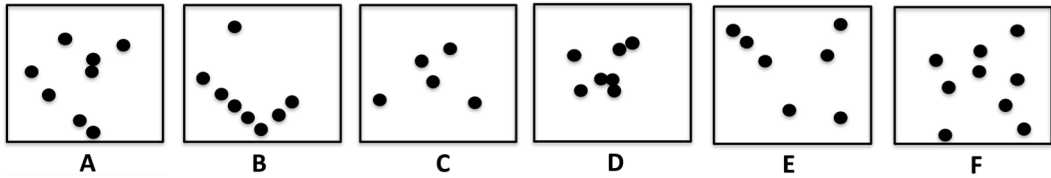
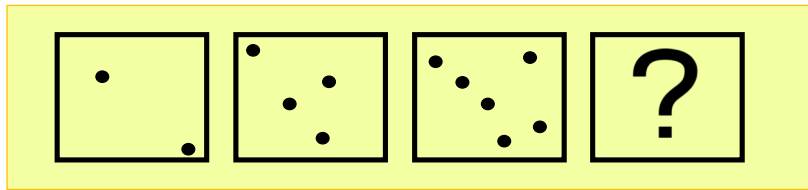
Missing Sequence

Select the square that comes next in the sequence.

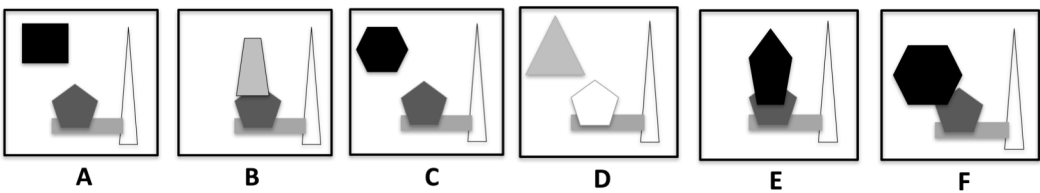
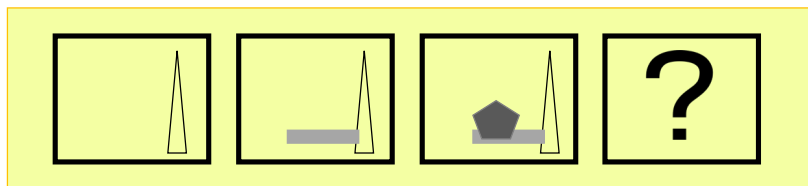
1.



2.



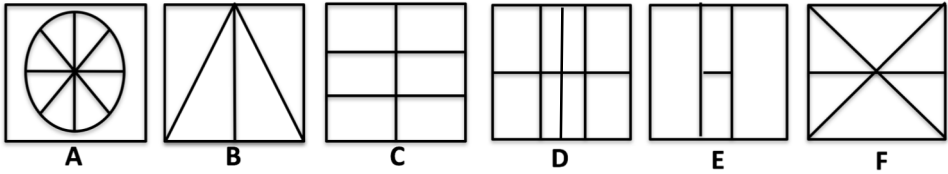
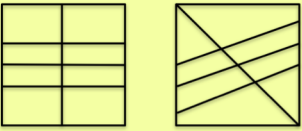
3.



Similarities

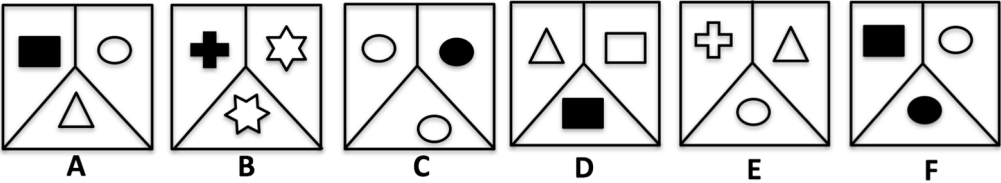
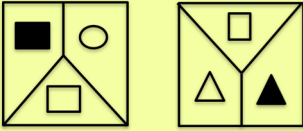
4.

Which one of A-F is similar to the sample shapes below?



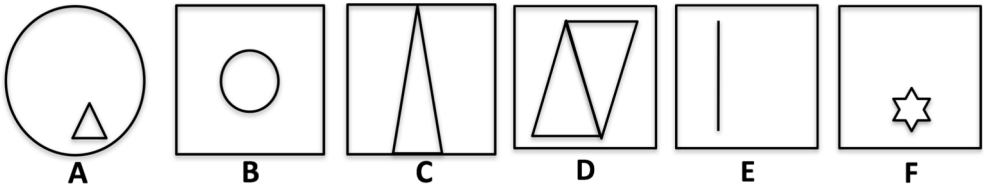
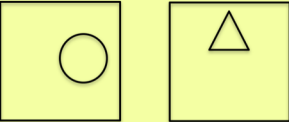
5.

Which one of A-F is similar to the box below?



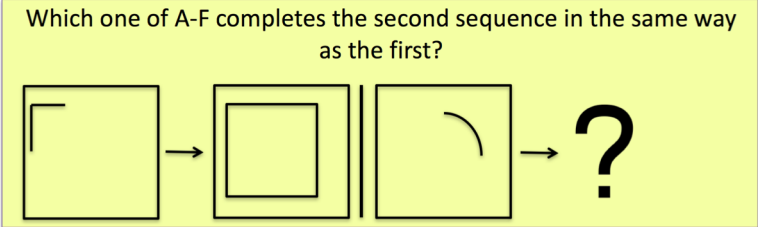
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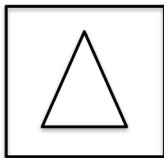
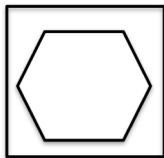
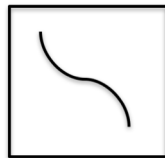
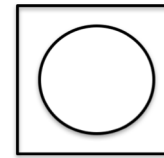
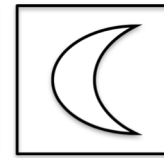
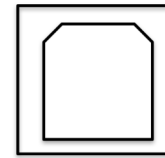
Which one of A-F is similar to the sample shapes below?



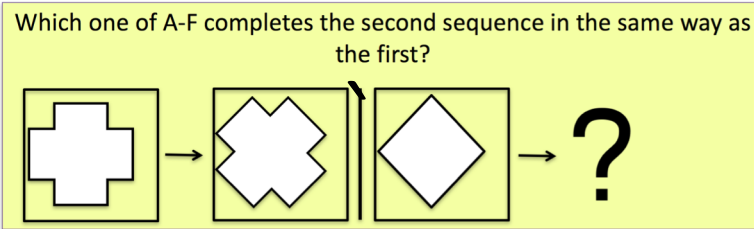
Analogies

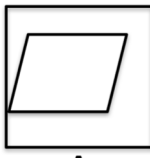
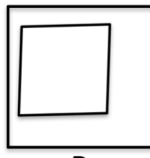
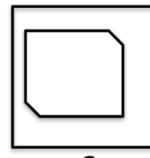
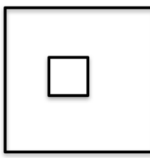
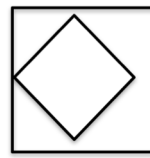
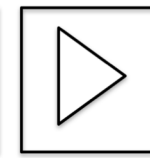
7. Which one of A-F completes the second sequence in the same way as the first?



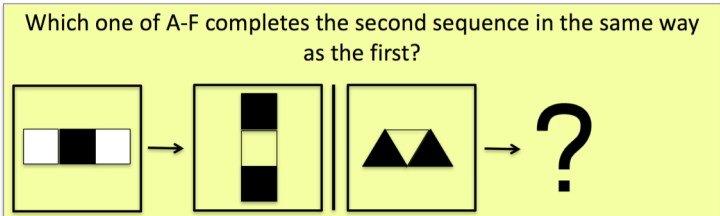
- 
A
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B
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C
- 
D
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E
- 
F

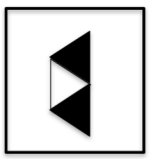
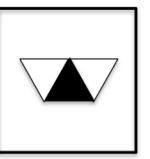
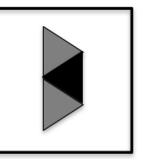
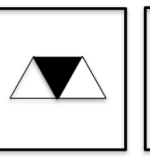
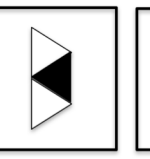
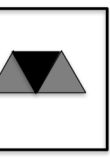
8. Which one of A-F completes the second sequence in the same way as the first?



- 
A
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B
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D
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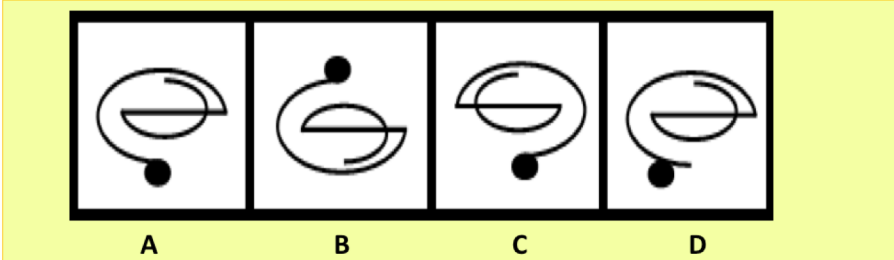
9. Which one of A-F completes the second sequence in the same way as the first?



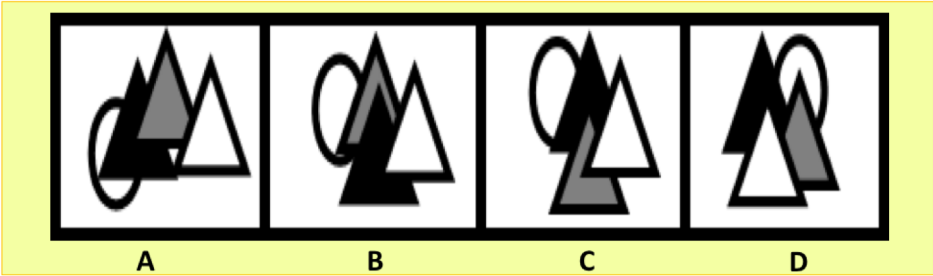
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A
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E
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F

Odd one out

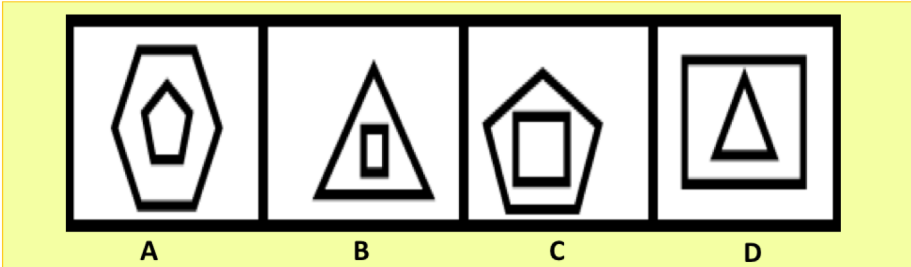
10. Which figure is the odd one out in the group ?



11. Which figure is the odd one out in the group ?



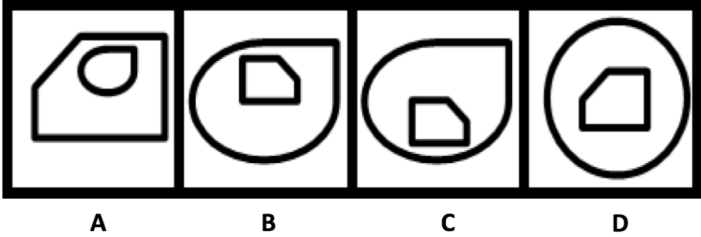
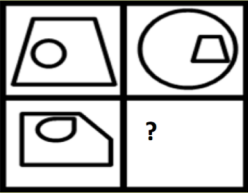
12. Which figure is the odd one out in the group ?



Complete the grid

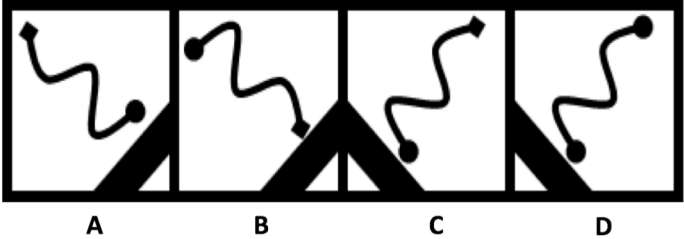
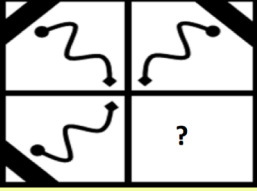
13.

Find which shape should fill the empty square ?



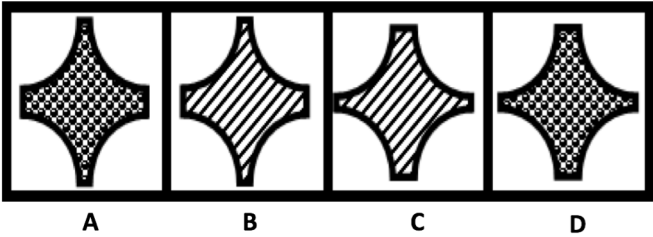
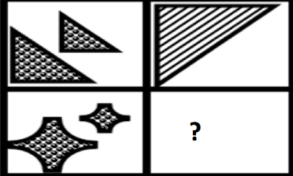
14.

Find which shape should fill the empty square ?



15.

Find which shape should fill the empty square ?



You have 10 minutes to complete this test.

Answers

1. A- The pattern along the sequence shows that the heart placed on the bottom right of the square rotates 90 degrees clockwise, and the shape on the bottom left rotates 90 degrees anti-clockwise.
2. B- In each square from left to right, the number of black circles increases by two. Therefore in the fourth missing square, there must be $6+2=8$ circles, as the previous box has 6 circles.
3. F- The pattern along the sequence shows that in each box from left to right the number of shapes increases by 1. Additionally, the colour of the added shape progressively becomes darker. As well as this, the number of sides of each added shape increases by 1, i.e the first shape had 3 sides, the second added shape had 4 sides, the third added shape has 5 sides, so the fourth added shape must have 6 sides, hence the shape will be a hexagon.
4. D- The two sample shapes both have 4 lines that cut across the square, leaving 8 shapes in the square. Only D has 4 lines across the square, so that there are only 8 shapes left.
5. D- The two sample boxes are split into three portions, each containing a shape. Two portions contain the same shape, one of which is black and the other is white. The third portion contains a different shape. Although B does contain two identical shapes, they're both the same colour so the correct answer must be D.
6. F- The two sample boxes both contain a small shape that lies close to the edge of the square. F is the only square that has a small shape at the edge of the box.
7. D- From the first pair of shapes we can see that the pattern is that the outline border of the shape becomes completed in the second box, so the answer to the question will have a completed circle contained inside the square.
8. B- From the first pair of shapes we can see that the shape within the square rotates 45 degrees in any direction. So the square will rotate 45 degrees, producing B.

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You have 10 minutes to complete this test.

9. E- From the first sequence, the pattern is that the white squares turn black and the black squares turn yellow. Additionally, the shape within the square also rotates by 90 degrees. As the shape in the first box of the second sequence has two outer black triangles, these will turn white and the middle yellow triangle will turn black.
10. D- In every option other than D, the black circle is positioned on the very edge of the of the shape's line.
11. B- In every option other than B, the white circle is positioned to the behind the black triangle, which is behind grey triangle which is behind a white triangle.
12. B- In every option other than B, there is a small shape that has one less number of edges than the shape it is contained in.
13. C- We can see that the pattern within the grid is from the upper left to upper right box is that the the larger shape switches with the smaller shape and then smaller shape moves to the opposite end of the larger shape. So, the empty square will have a large tear drop shape containing the small five-sided shape which is placed at the bottom of the teardrop.
14. A- We can see that each of the three boxes have a black shape that is positioned near each corner of the square, and the curly lines point to the centre. So the answer is A.
15. B- We can see that the pattern within the grid is from the upper left to the upper right box is that the shape in the left box is enlarged and rotated 90 degrees clockwise and the pattern within the shapes changes into diagonal straight lines. The answer is not C as the shape hasn't been rotated 90 degrees.

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