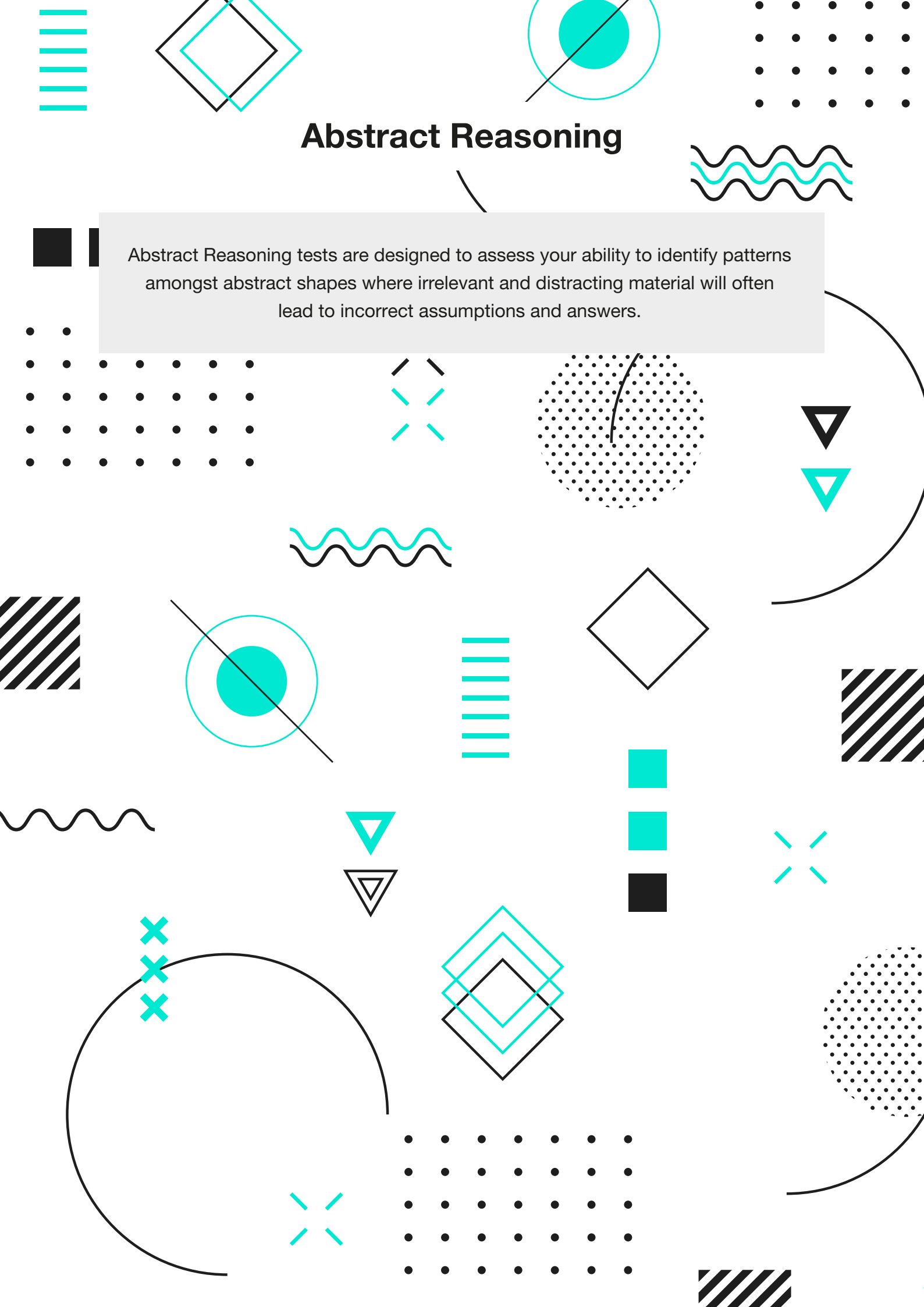


# Abstract Reasoning

Abstract Reasoning tests are designed to assess your ability to identify patterns amongst abstract shapes where irrelevant and distracting material will often lead to incorrect assumptions and answers.



1. Which is the odd one out?

<input type="text" value="A"/>	<input type="text" value="B"/>	<input type="text" value="C"/>	<input type="text" value="D"/>	<input type="text" value="E"/>

2. Which is the odd one out?

<input type="text" value="A"/>	<input type="text" value="B"/>	<input type="text" value="C"/>	<input type="text" value="D"/>

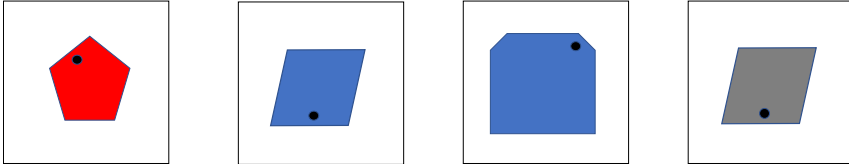
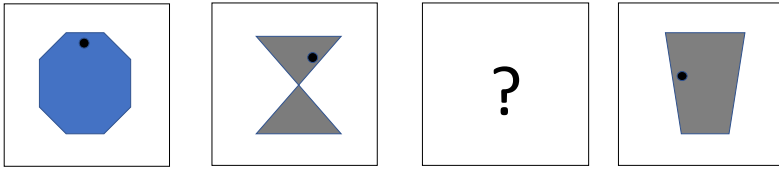
3. Which is the odd one out?

<input type="text" value="A"/>	<input type="text" value="B"/>	<input type="text" value="C"/>	<input type="text" value="D"/>

4. Which is the odd one out?

<input type="text" value="A"/>	<input type="text" value="B"/>	<input type="text" value="C"/>	<input type="text" value="D"/>	<input type="text" value="E"/>

5. Which tile completes the sequence?



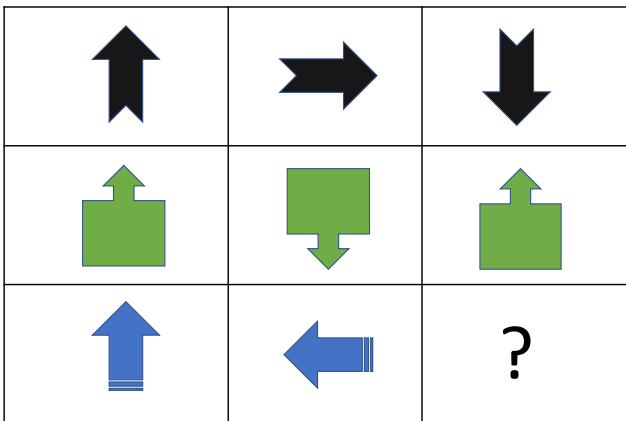
A

B

C

D

6. Which tile completes the grid?



A



B



C



D



7. Which tile completes the grid?

68	?	88
58	78	98
48	78	108

A

75

B

88

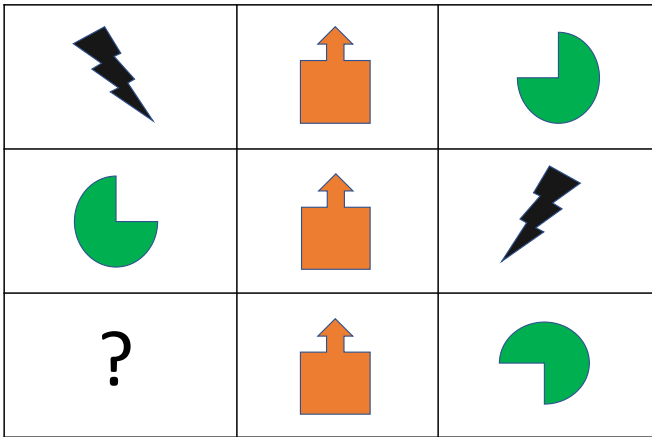
C

78

D

48

8. Which tile completes the grid?



A



B



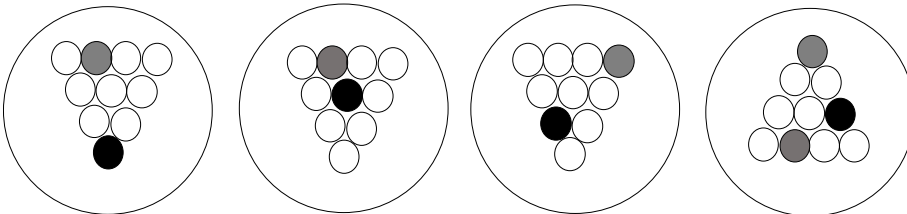
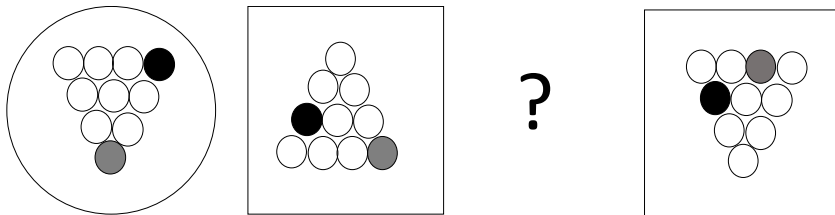
C



D



9. Which tile completes the sequence?



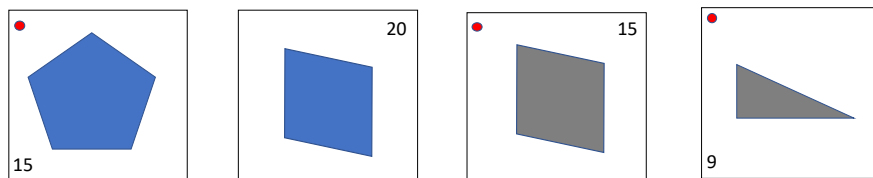
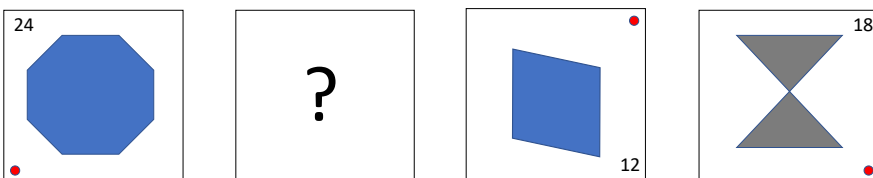
A

B

C

D

10. Which tile completes the sequence?



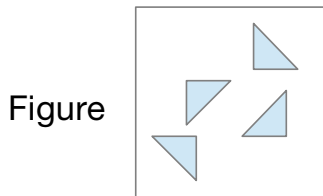
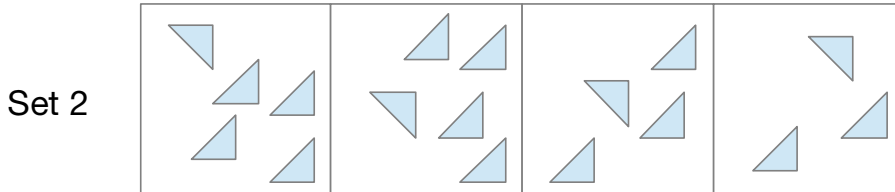
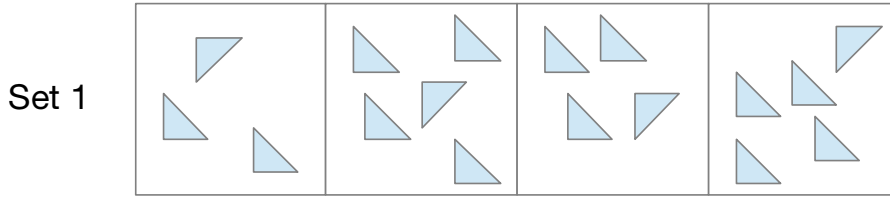
A

B

C

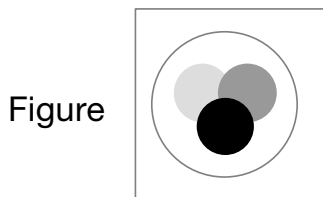
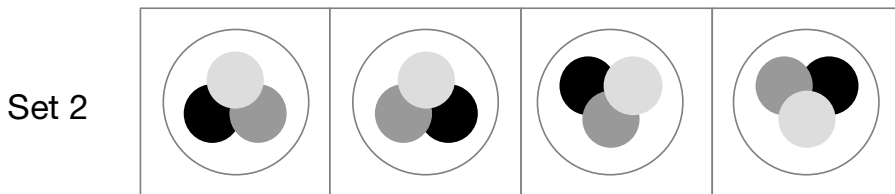
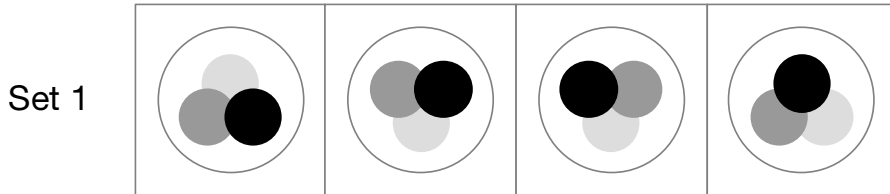
D

11. Which set does the figure belong to?



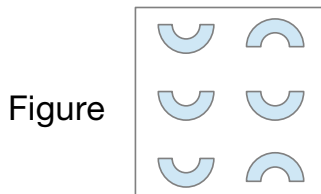
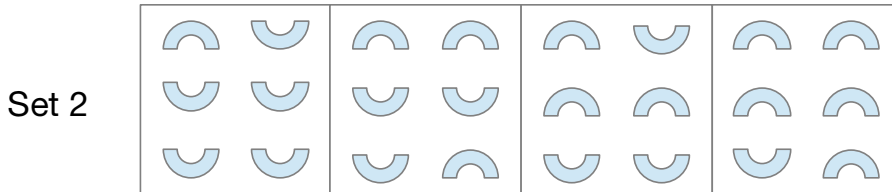
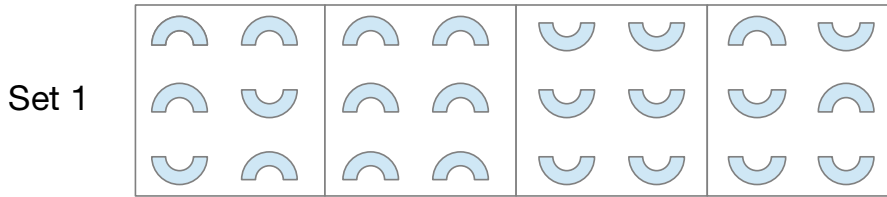
A	B	C	D
Set 1	Set 2	Both sets	Neither set

12. Which set does the figure belong to?



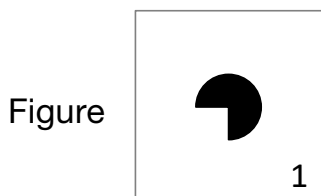
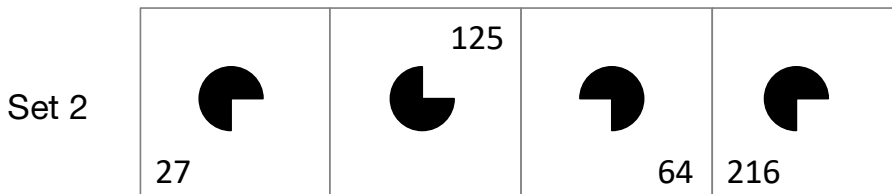
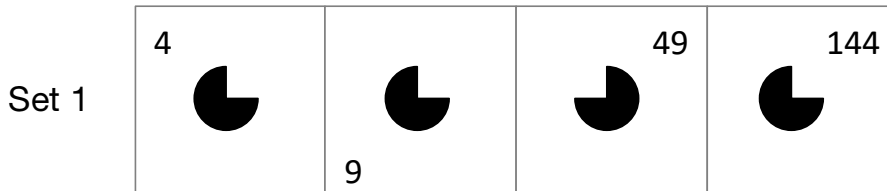
A	B	C	D
Set 1	Set 2	Both sets	Neither set

13. Which set does the figure belong to?



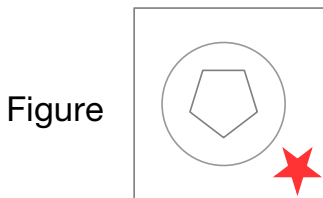
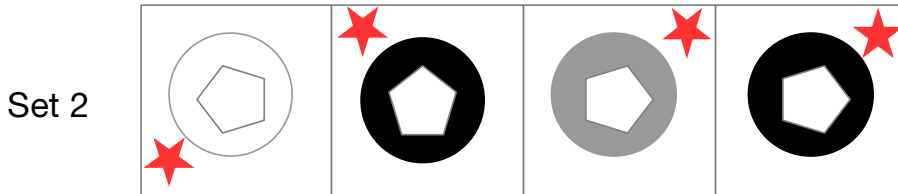
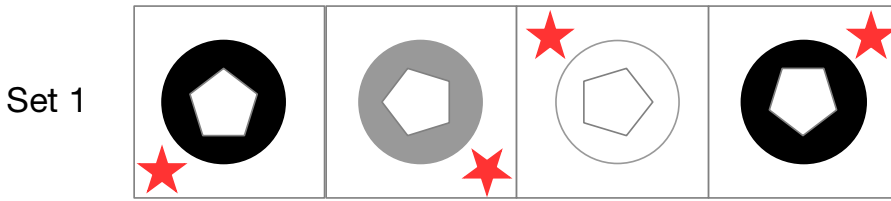
A	B	C	D
Set 1	Set 2	Both sets	Neither set

14. Which set does the figure belong to?



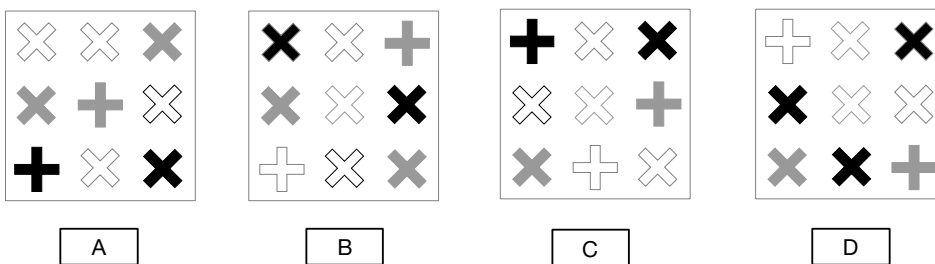
A	B	C	D
Set 1	Set 2	Both sets	Neither set

15. Which set does the figure belong to?

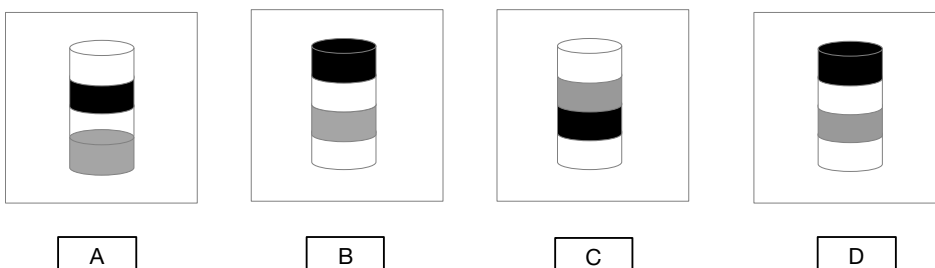


A	B	C	D
Set 1	Set 2	Both sets	Neither set

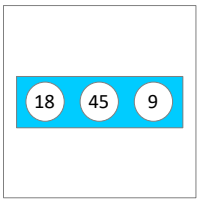
Q16. Which figure is the odd one out?



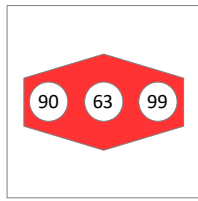
Q17. Which figure is the odd one out?



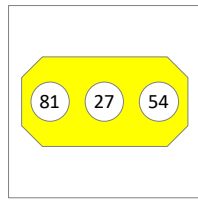
Q18. Which figure is the odd one out?



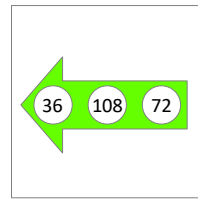
A



B

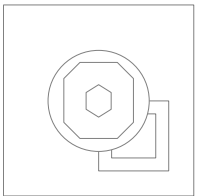


C

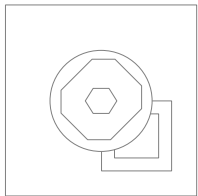


D

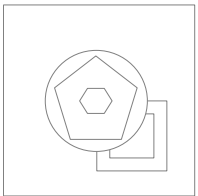
Q19. Which figure is the odd one out?



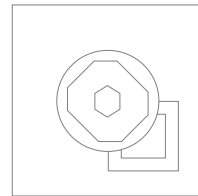
A



B

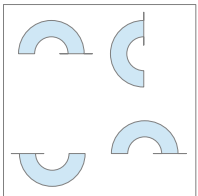


C

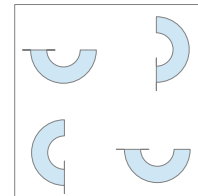


D

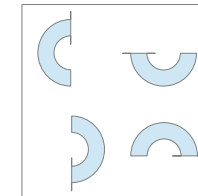
Q20. Which figure is the odd one out?



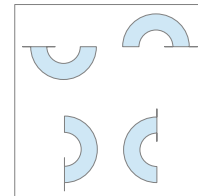
A



B



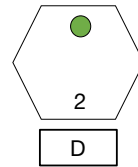
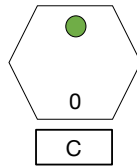
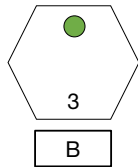
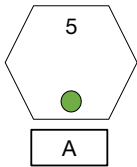
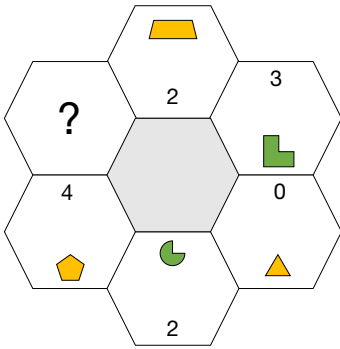
C



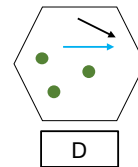
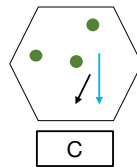
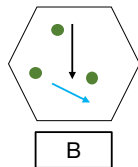
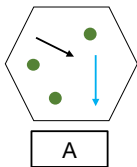
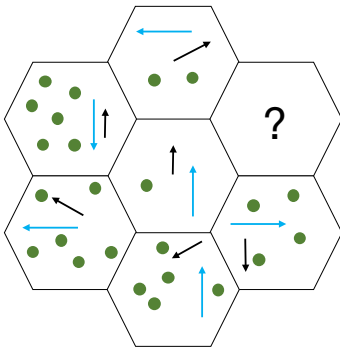
D



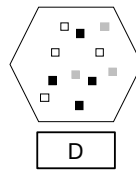
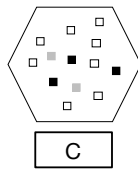
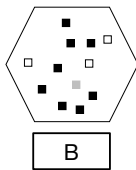
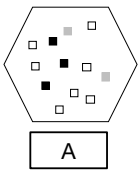
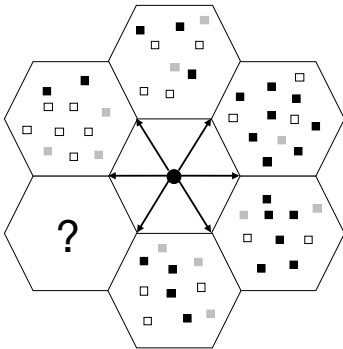
Q21. Find the hexagon which completes the sequence or pattern.



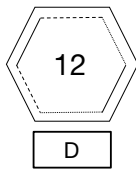
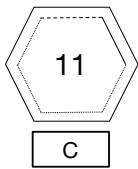
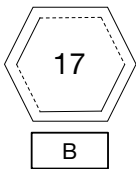
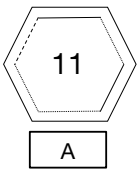
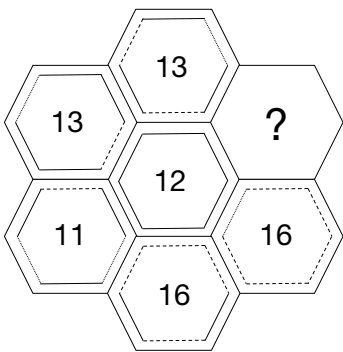
Q22. Find the hexagon which completes the sequence or pattern.



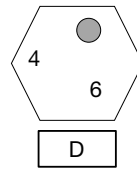
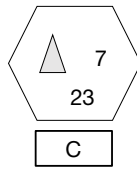
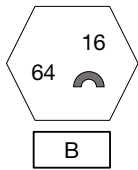
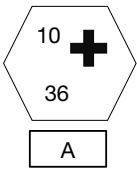
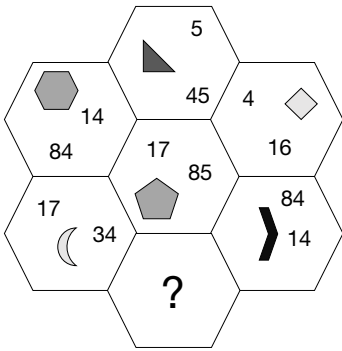
Q23. Find the hexagon which completes the sequence or pattern.



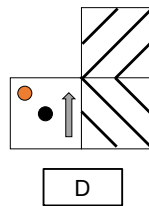
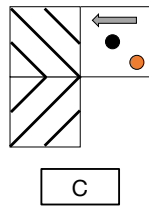
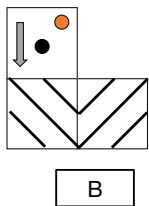
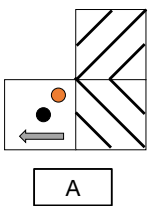
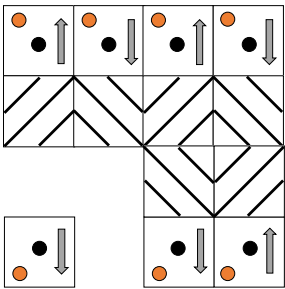
Q24. Find the hexagon which completes the sequence or pattern.



Q25. Find the hexagon which completes the sequence or pattern.

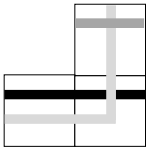
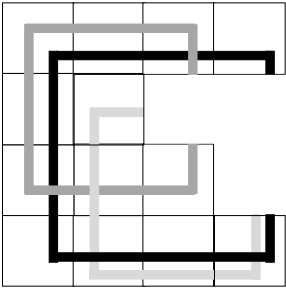


Q26. Which tiles, when rotated, complete the grid?

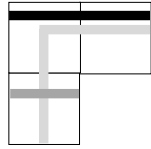




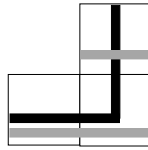
Q29. Which tiles, when rotated, complete the grid?



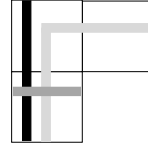
A



B

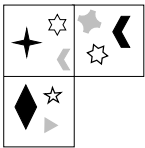
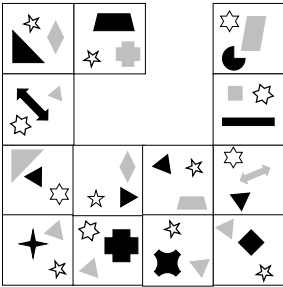


C

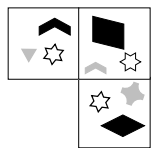


D

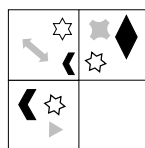
Q30. Which tiles, when rotated, complete the grid?



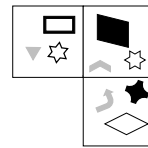
A



B



C



D

## Answers

1. C  
All of the sequences follow the same pattern, moving from the top tile; up, down, left, and then finishing on right tile adding 5 each time. C is the odd one out as although it follows the sequence, it starts on an odd number, not an even one, inverting the pattern the other sequences follow.
2. A  
The number corresponds to the number of sides of the shapes in each tile, and the 4 tiles should equal 23. A = 17 and the sides do not match the number in the top left tile of A.
3. B  
The red dots are on the right-hand side of the red arrows. The other tiles' red arrows have a dot on the left.
4. E  
The dot is not in the correct position. Each corner of the outside square from left to right relates to the number of edges of the shape contained. Top left = 2, top right = 4, bottom right = 6 and bottom left = 8. Shape A has 8 sides therefore the dot should be located on the bottom right corner. In shape E the red dot is in the top right corner which denotes a 4 sided shape and is incorrect as the shape contained has 8 sides. The letters denote AB = odd number of edges. CF = even number of edges.
5. B  
Starting from the uppermost side the dot is moving clockwise one side as the sequence progresses.
6. A  
The grid moves left to right, down, then right to left, then down, and finally left to right. The top row rotates clockwise  $90^\circ$ . The middle row rotates  $180^\circ$  and the bottom row rotates  $270^\circ$  clockwise.
7. C  
Top row left to right increases by 10, middle row increase by 20, last row increases by 30.
8. D  
The amber shapes remain the same on all 3 rows, the green pies and black lightning bolts on the second row are mirrors of their respective shapes on the top row. The black lightning bolt and green pie on the last row are vertically flipped & rotated clockwise  $90^\circ$  from the second row.
9. B  
All triangles start in the same orientation as 1 The grey and black balls move left to right, down, then right to left and down by one until they reach the bottom where they return to top left. After the balls are moved the inside shape rotates  $180^\circ$  and the outside shape alternates between a circle and a square.
10. D  
The red dot moves around the outside shape one corner at a time clockwise. The number corresponds to the number of sides  $\times 3$  and the number positions moves anti-clockwise around the square one corner each time. Finally, the colour of the shapes alternate from grey to blue.
11. D  
Neither set. The right angles of the triangles point to both the left and right hand side of the square.
12. A  
Set 1. The black circle is always at the front.
13. A  
Set 1. The arches point up and down in even numbers.
14. C  
Both sets. Set 1 contains square numbers, while Set 2 contains cube numbers. 1 squared and 1 cubed both equal 1.

15. B

Set 2. In Set 1 the red star is in line with one of the edges of the pentagon, while in Set 2 the red star is in line with one of the vertices of the pentagon.

16. C

Three of the crosses are rotated, the rest all have two.

17. A

You can see the top face of the first cylinder.

18. D

The outside shape has an odd number of sides.

19. C

The second most inner shape is a pentagon.

20. B

The bottom left arrow is moving in an anti-clockwise motion.

21. B

Moving clockwise the number in the hexagon determines how many more or less edges the shape will have. If the number is below the shape, add that number of edges to the shape. If they number is above the shape, subtract that number of edges from the shape.

22. A

The green dots show the sequence of tiles. The black arrow rotates 60 degrees clockwise while the blue arrow rotates 90 degrees anti-clockwise.

23. D

Opposite hexagons have an inverse number of black and white squares.

24. D

Each edge represents a number:

Dotted edges = 1

Solid edges = 2

Dashed edges = 3

25. B

The bigger number, divided by the smaller number equals the number of edges of the shape.

26. C

The grid is a mirrored image. Option C completes this.

27. D

In each row the number of points on the star increases from four to seven. Option D completes this.

28. A

The pattern goes from left to right, down then right to left etc. The arrow rotates 45 degrees each time and the colour alternates from black, to grey, to white repeatedly. Option A completes this.

29. B

Option B shows the lines in the correct position to complete the grid.

30. C

In each row the number of lines of symmetry for the black shape is the same (1 line of symmetry in the first row, 2 lines of symmetry in the second row and so on). Option B completes this.