# 4.17 Like Figures: 2-hour Pack

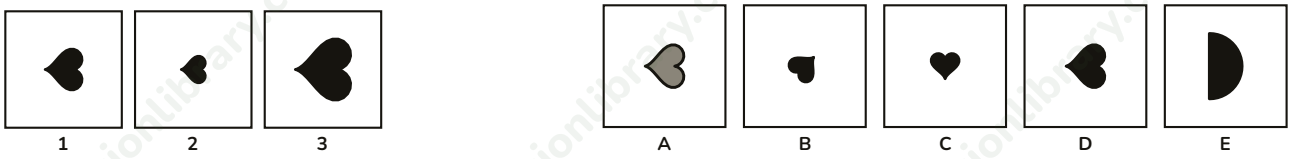
GL ASSESSMENT GL-EP.N5 · Calculators not allowed · about 120 minutes

Total Marks

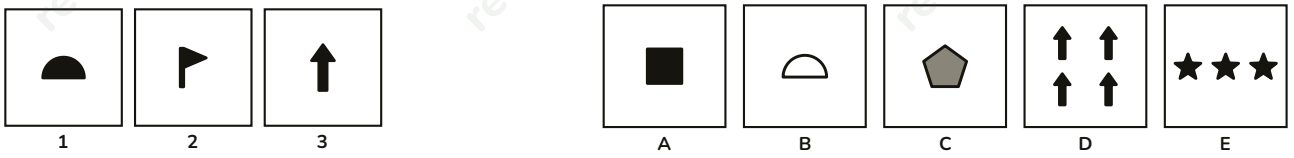
Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

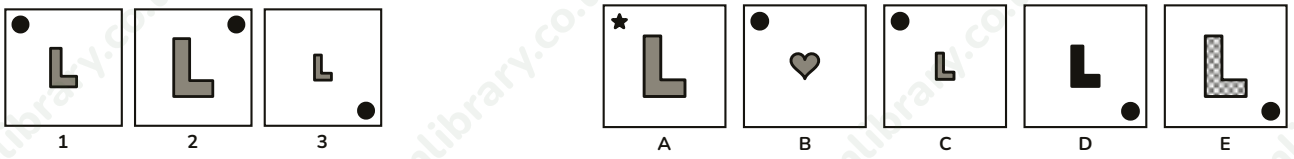
**1** Figures 1, 2 and 3 are alike in some way. Which one of the options A to E follows the same rule and belongs with the group?



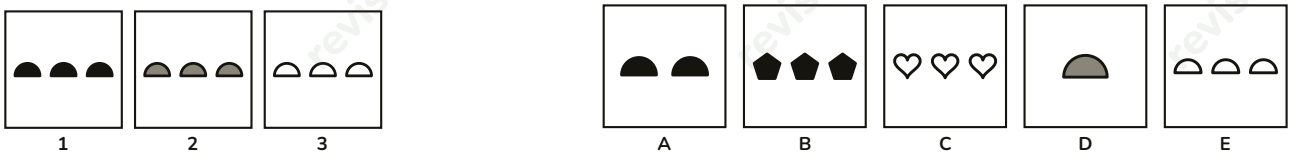

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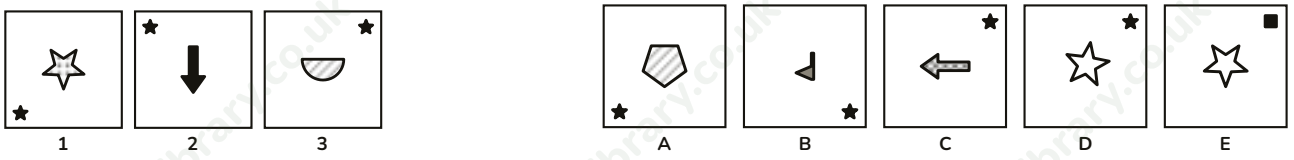

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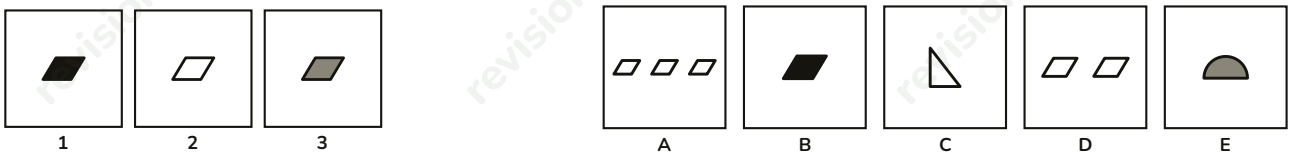

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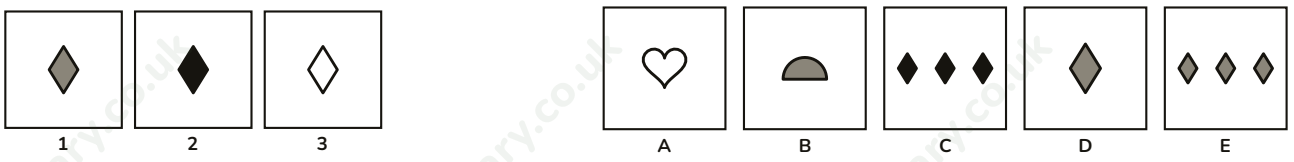

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**6**



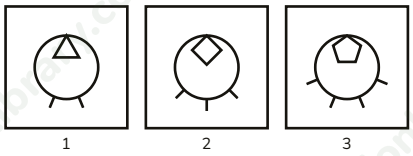

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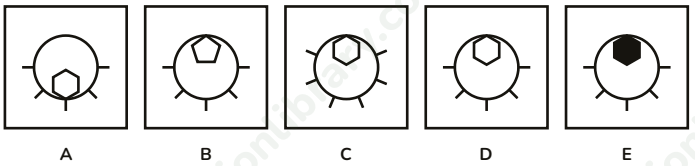




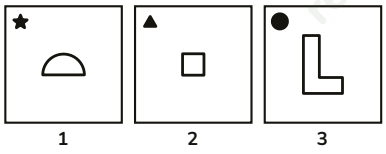
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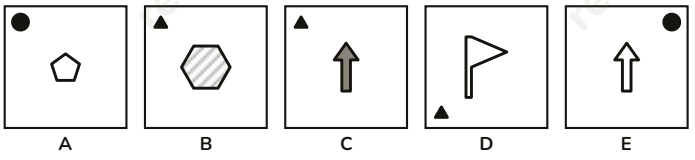
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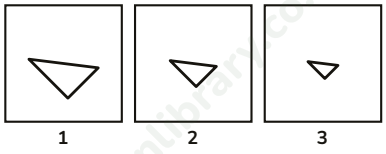



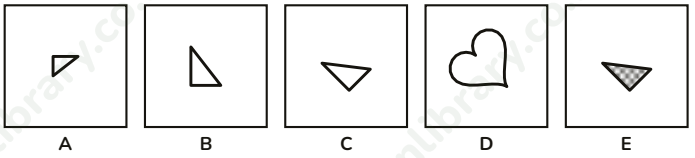

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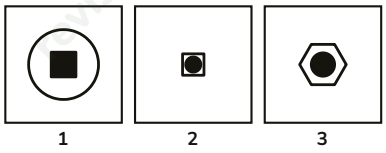



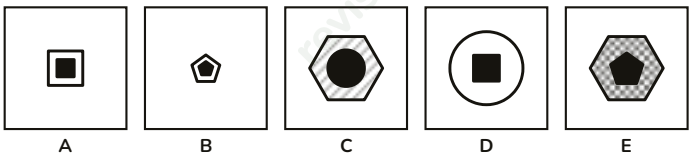

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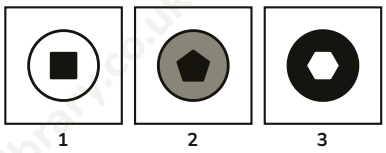



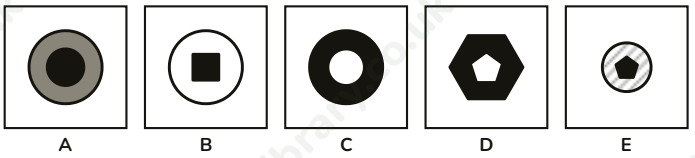

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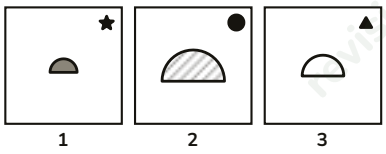



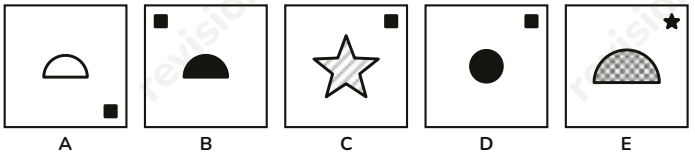

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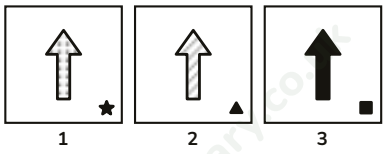



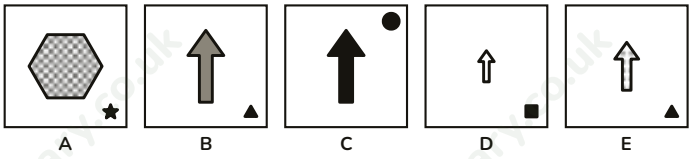

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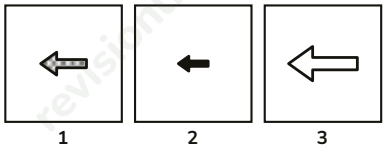



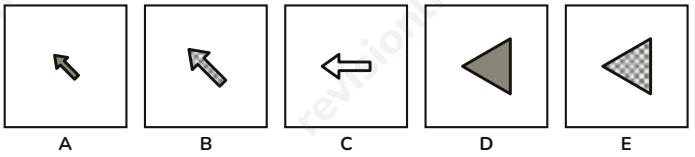

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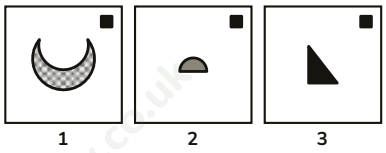



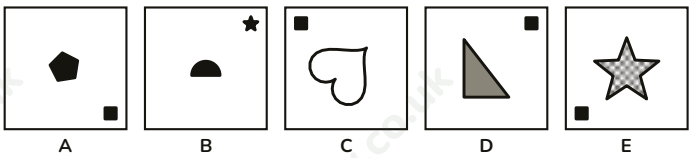

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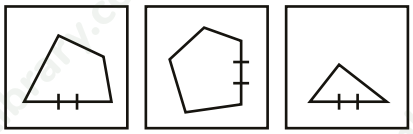




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**17**



1 2 3

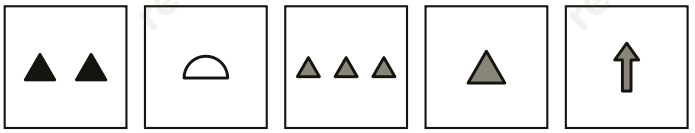


A B C D E

**18**



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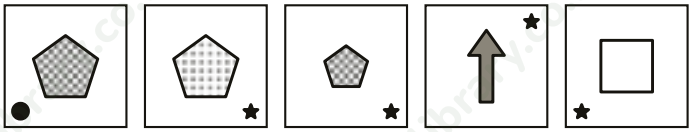


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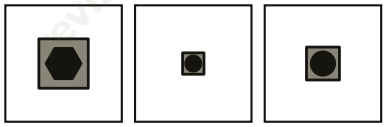


1 2 3



A B C D E

**20**



1 2 3



A B C D E

**21**

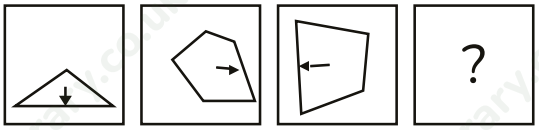
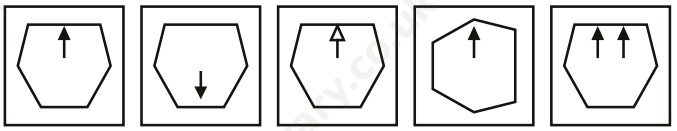


Figure 1 Figure 2 Figure 3

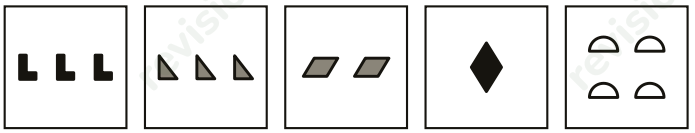


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**22**



1 2 3

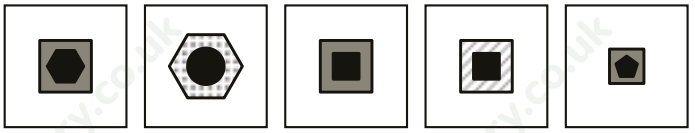


A B C D E

**23**



1 2 3

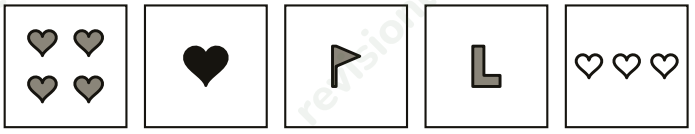


A B C D E

**24**



1 2 3



A B C D E

**25**



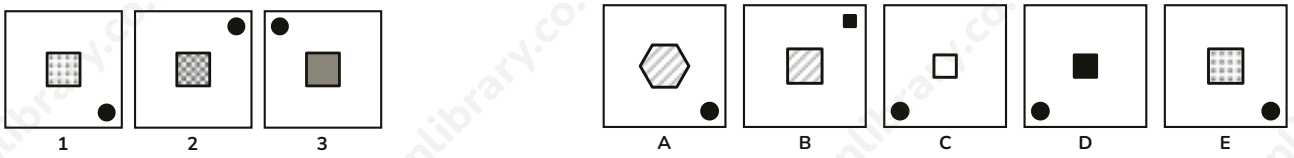
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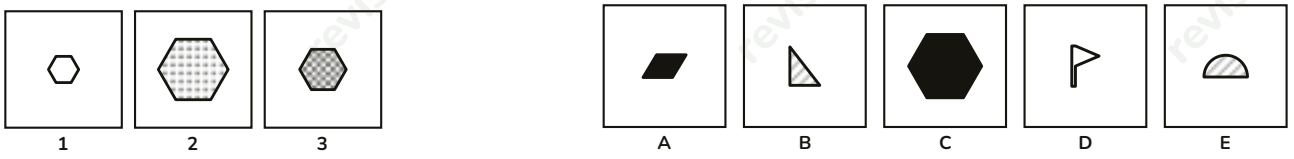
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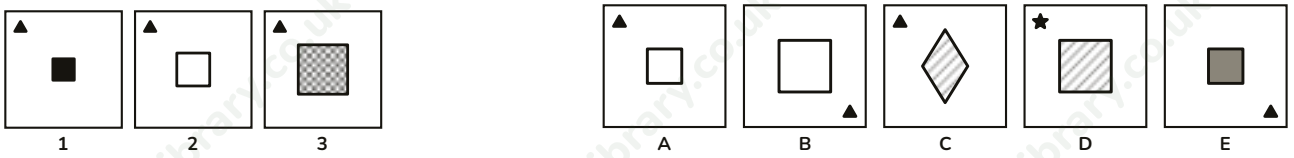
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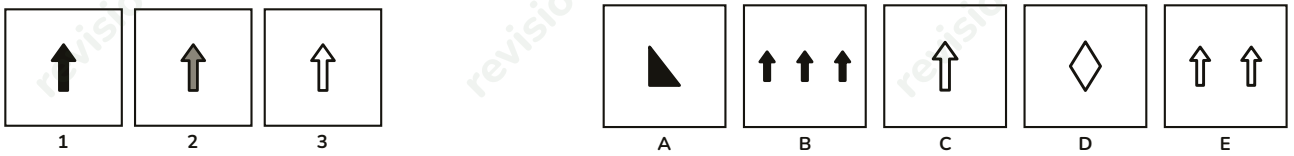

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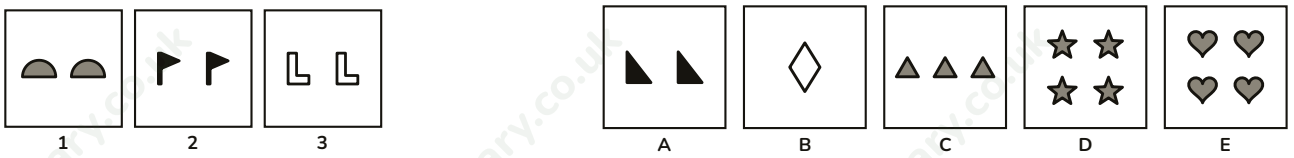

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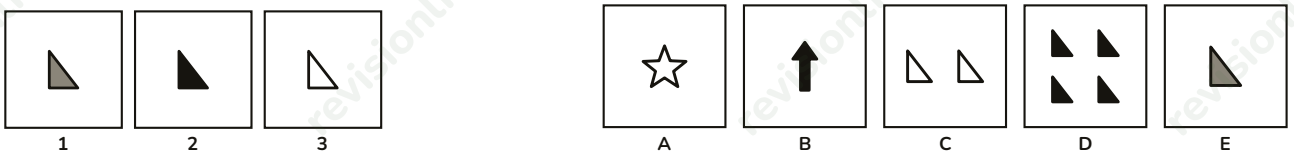

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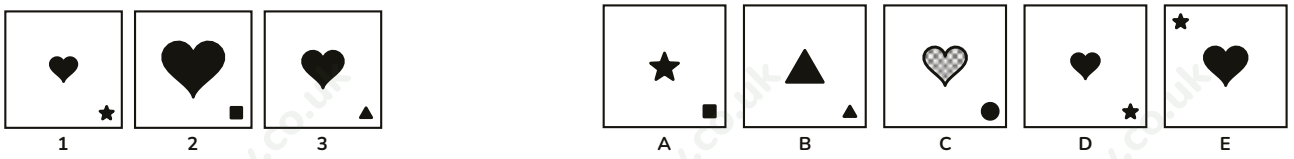

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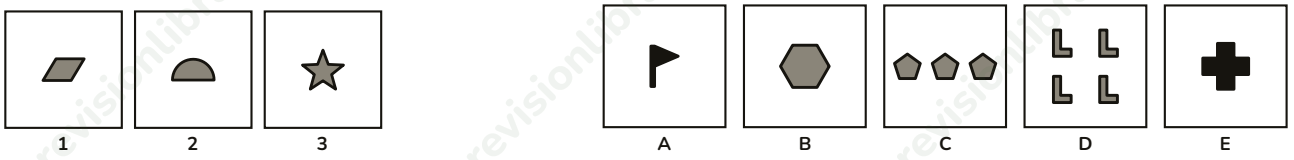

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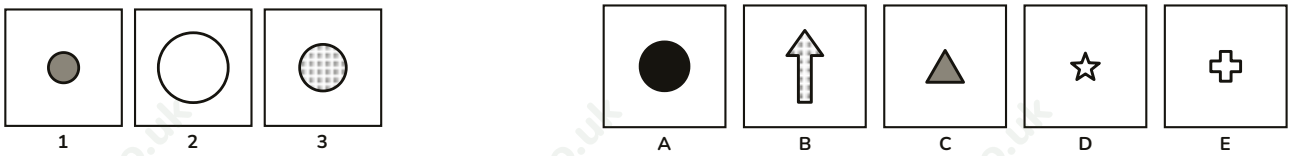

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**33**



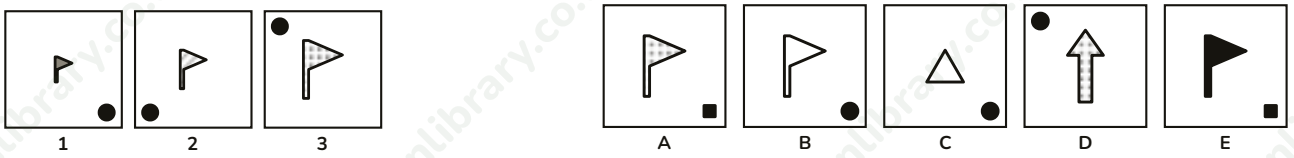

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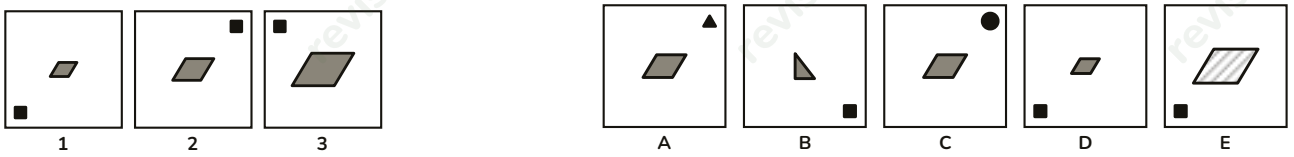


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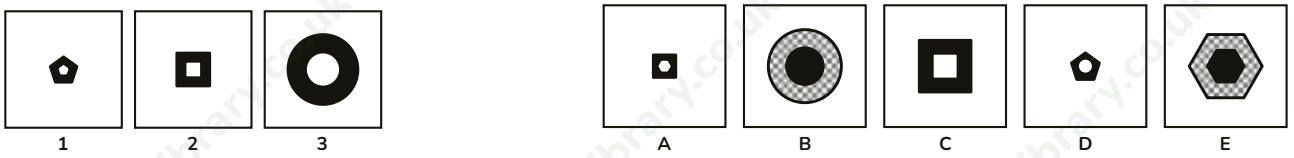
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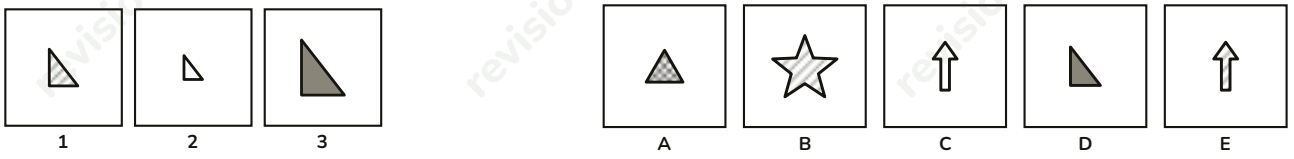

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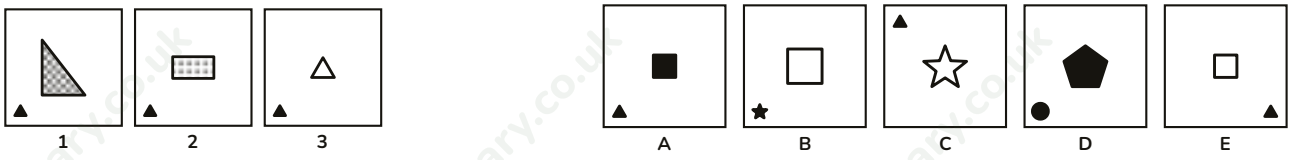

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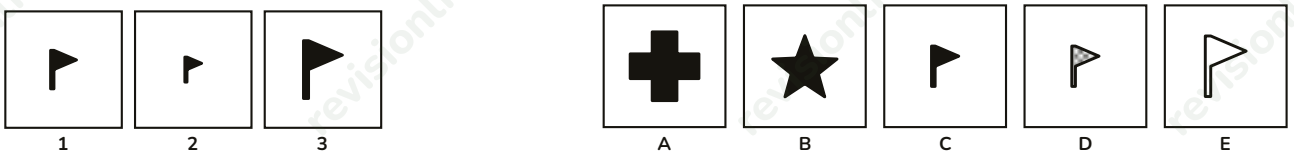

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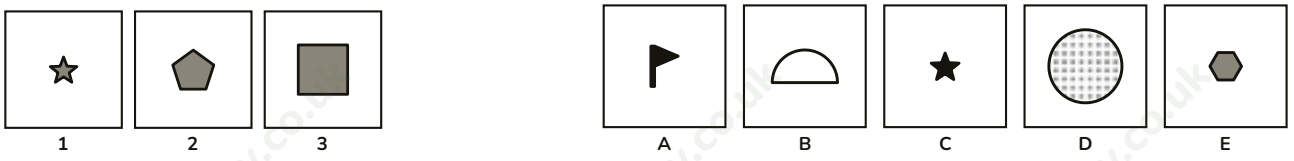

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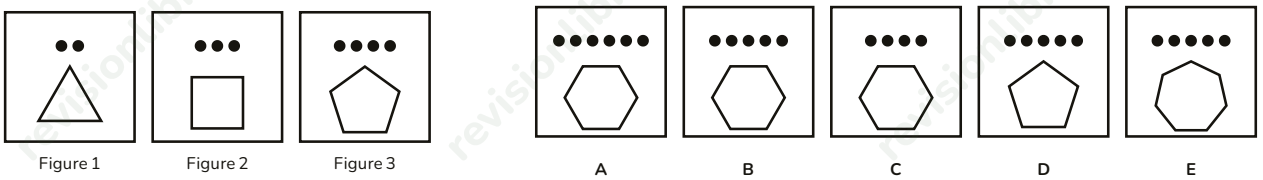

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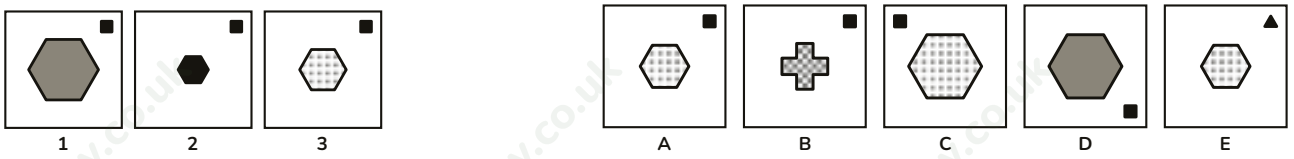

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**42**



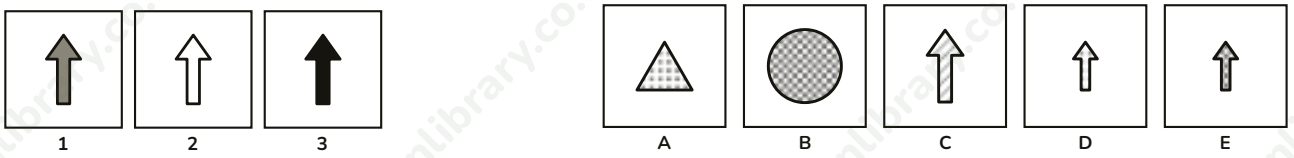

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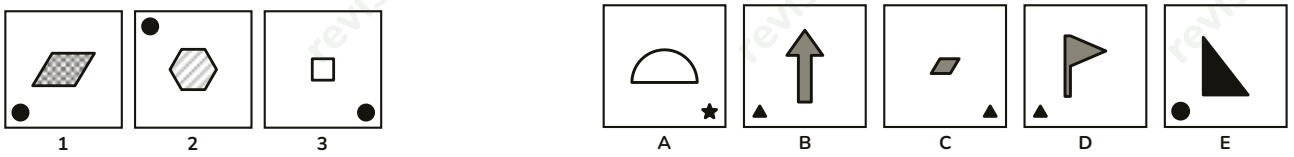


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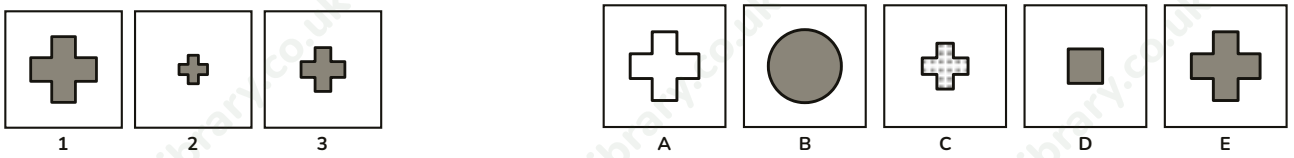
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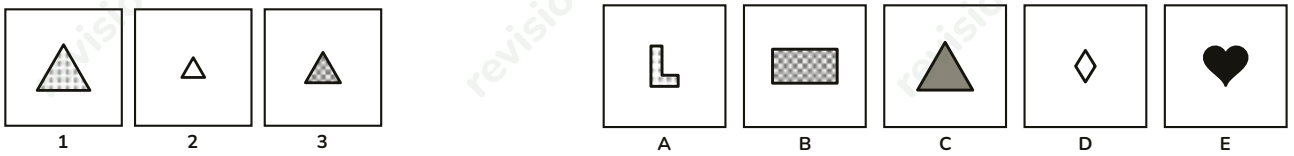

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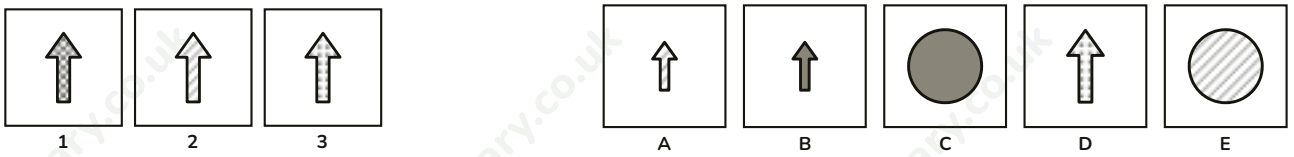

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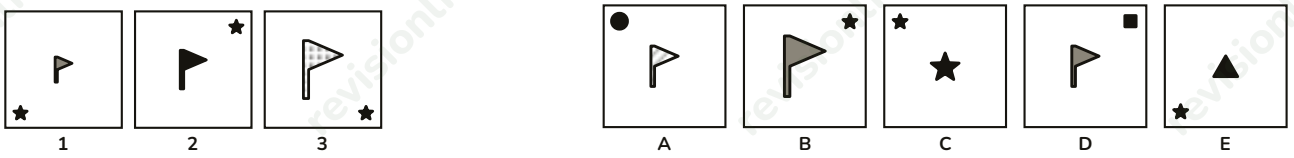

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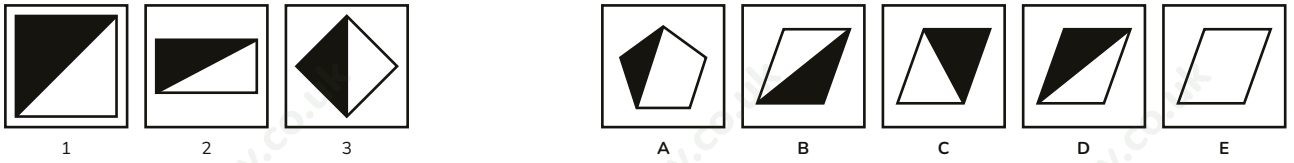

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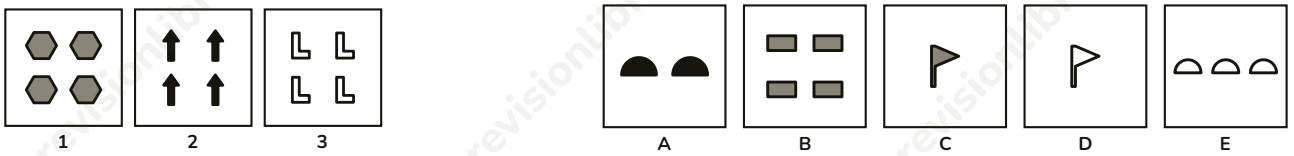

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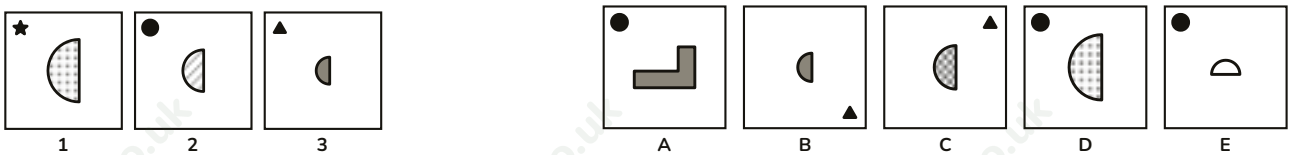

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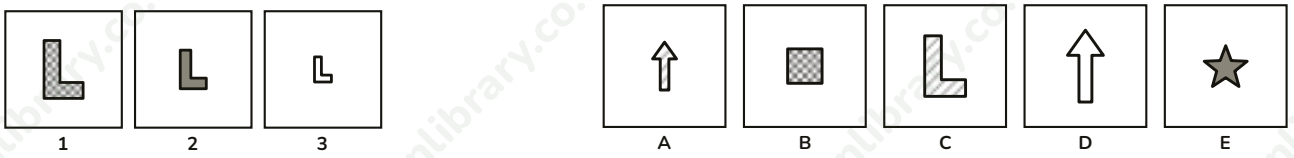

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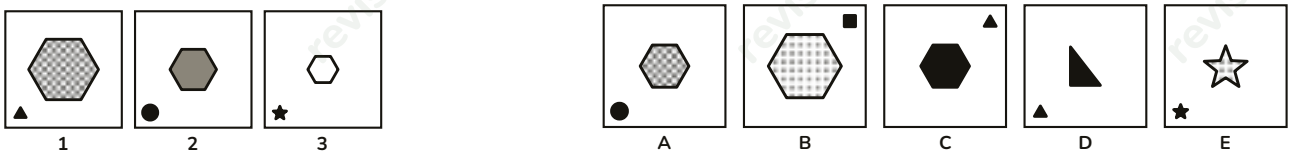


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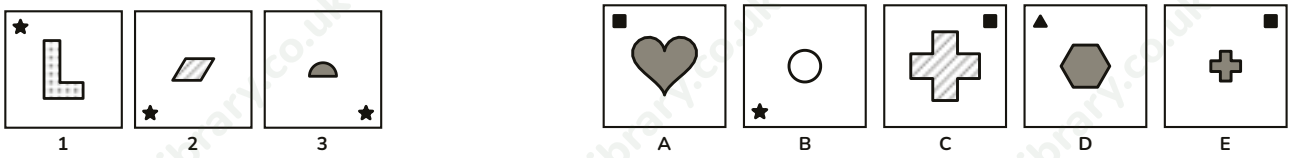
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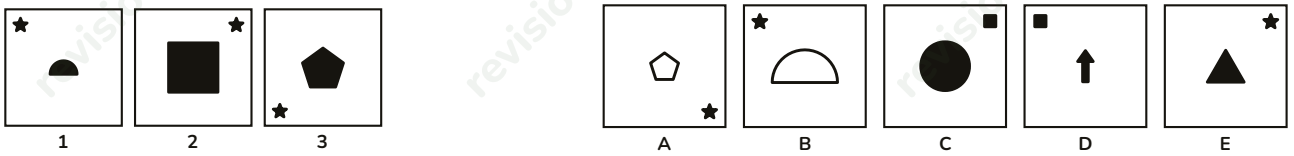

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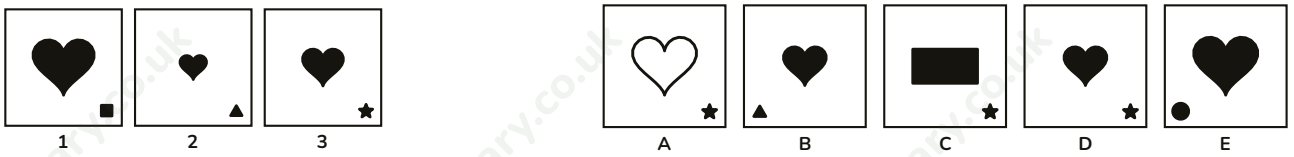

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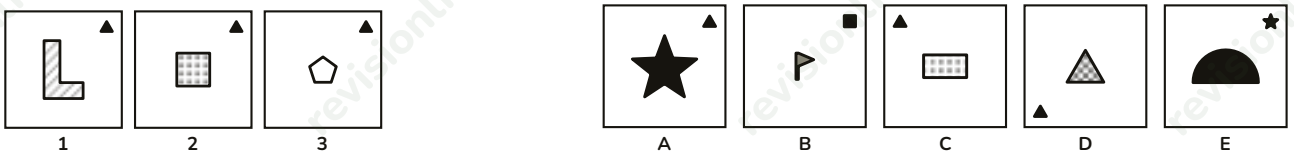

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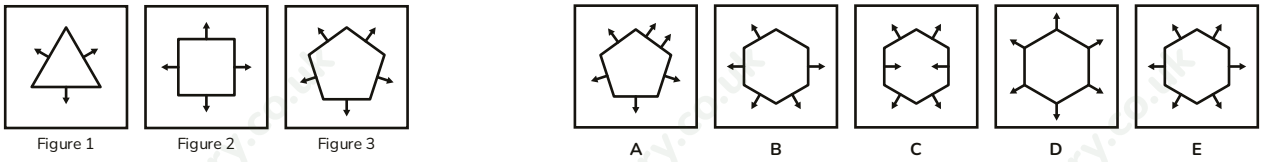

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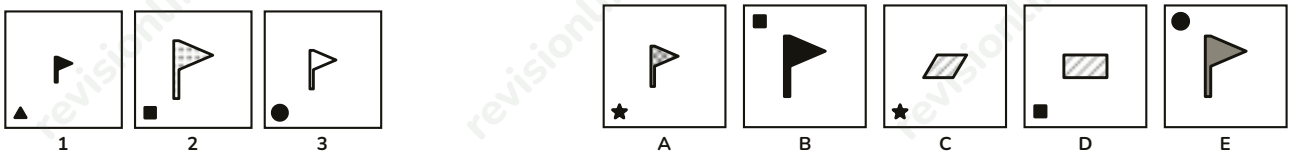

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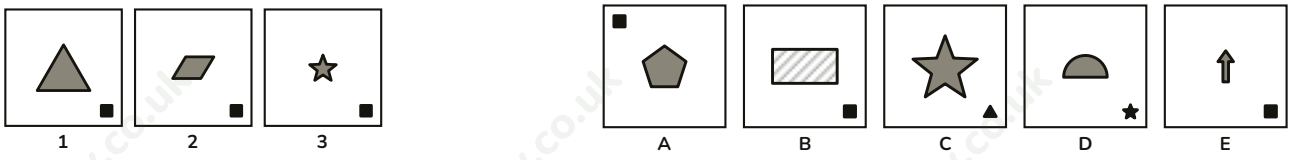

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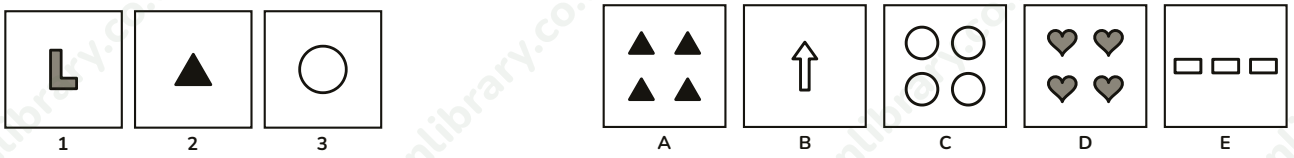

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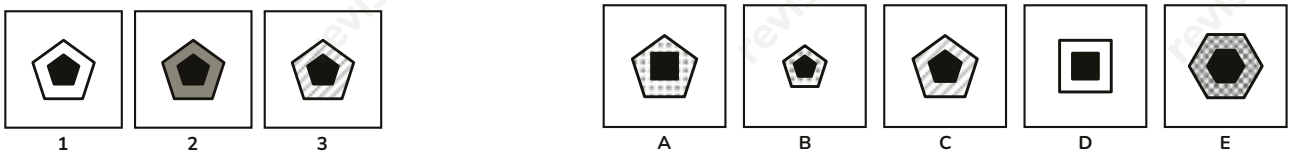


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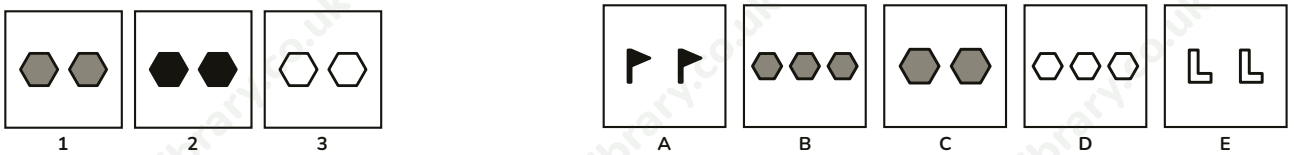
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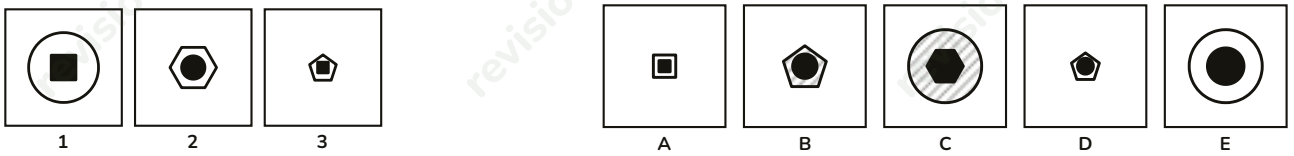

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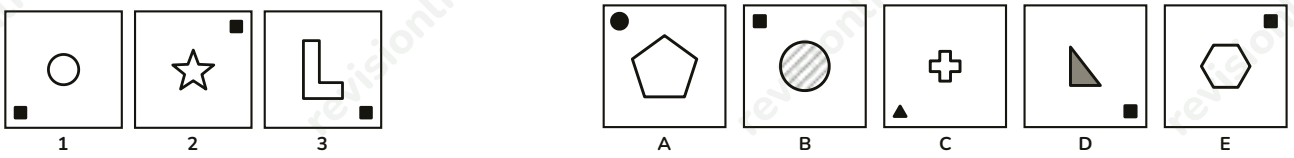

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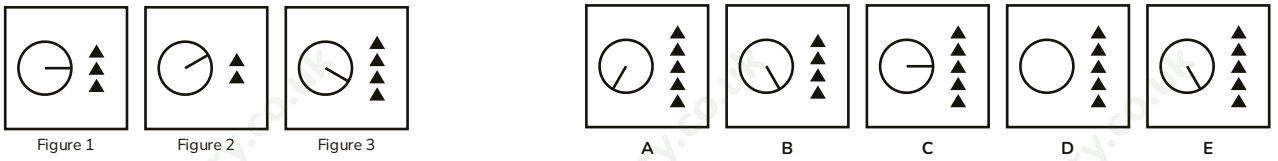

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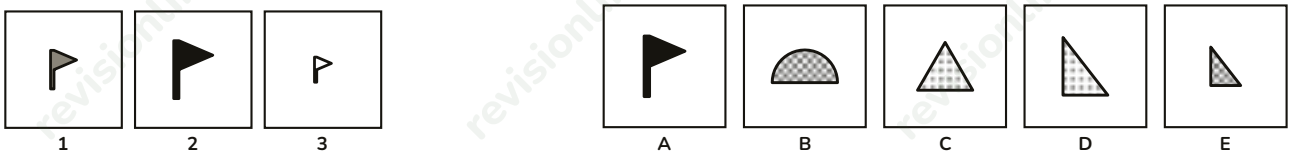

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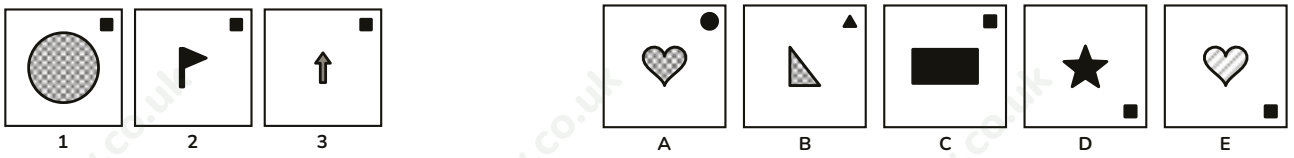

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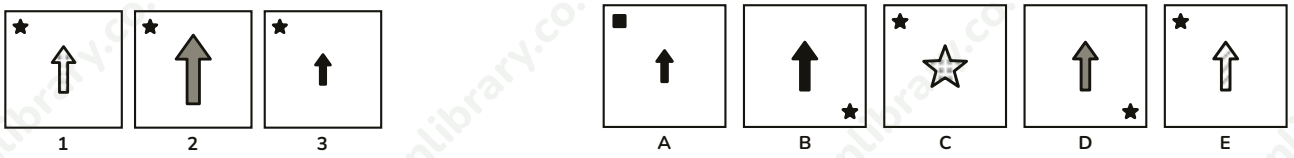

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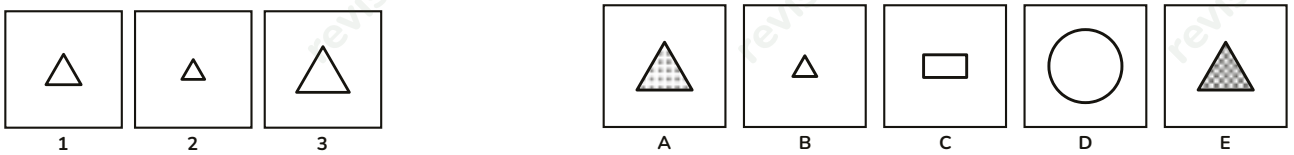


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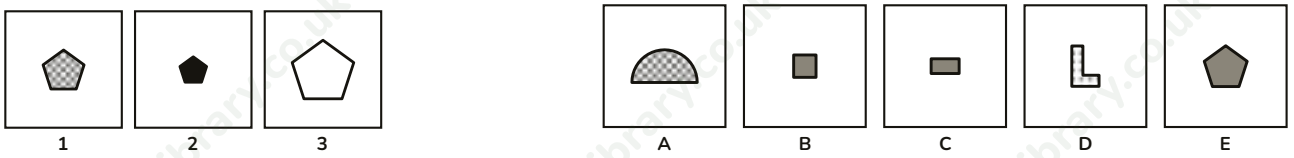
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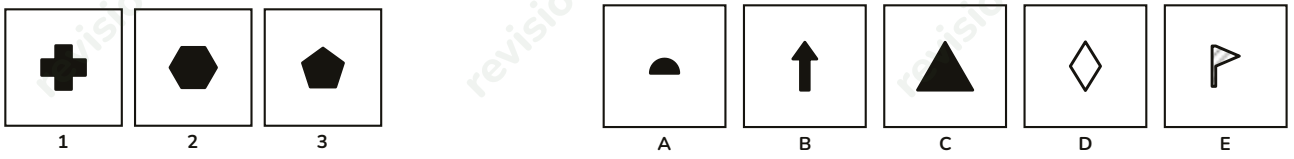

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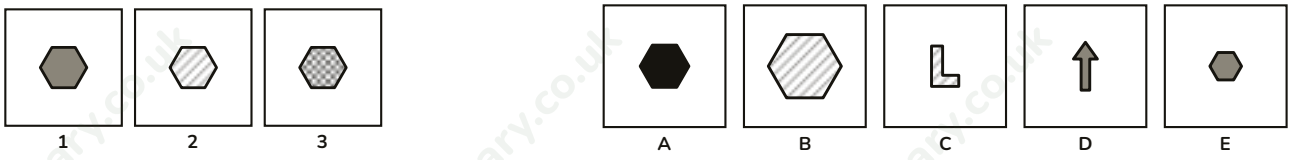

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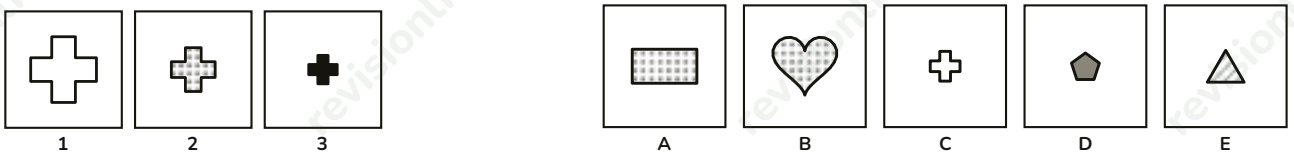

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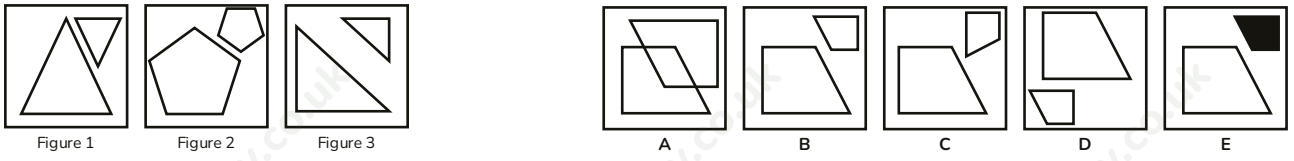

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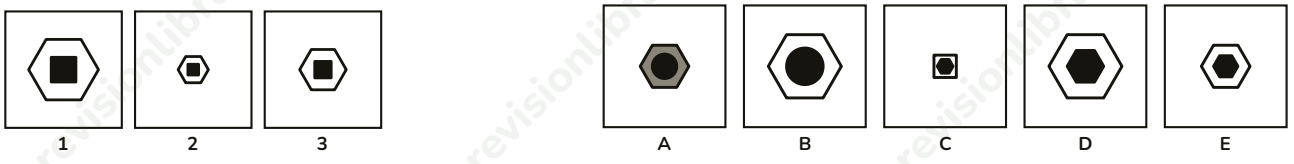

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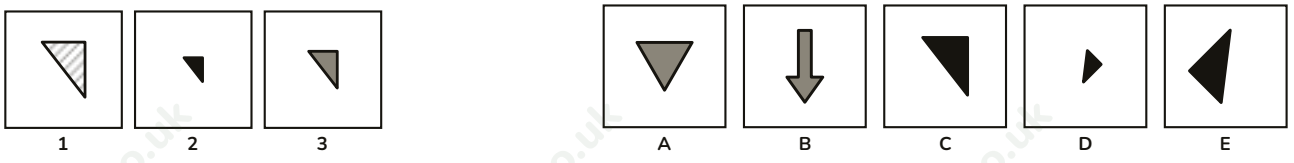

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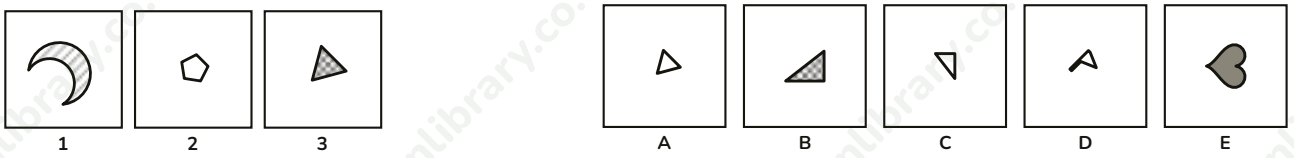

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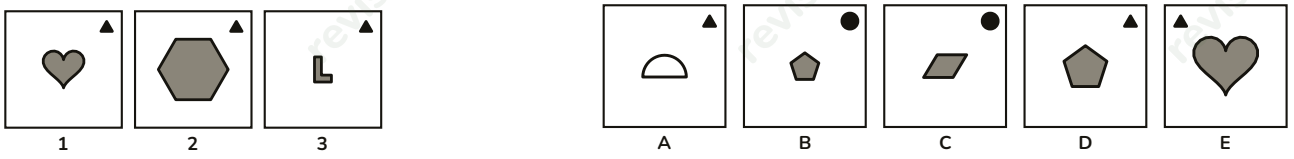


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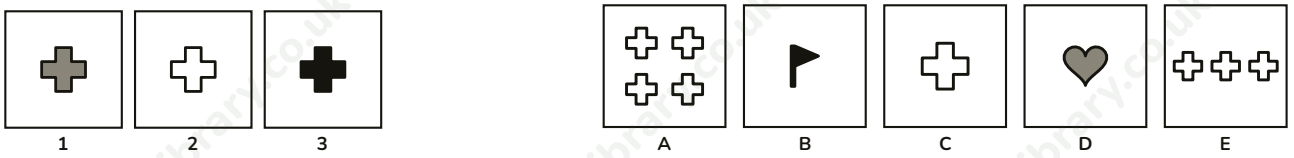
**80**




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**82**





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# Mark scheme · 4.17 Like Figures: 2-hour Pack

## Question 1

selects option D: the figures 1, 2 and 3 all have the same orientation (turned 90 degrees clockwise from upright) and are all solid black and are all hearts, and only this option does the same (cao) **B1**

**Answer: D) A medium solid black heart with its point facing left**

## Question 2

selects option A: the figures 1, 2 and 3 are all solid black and are each made of 1 shape, and only this option does the same (cao) **B1**

**Answer: A) A medium solid black square**

## Question 3

selects option C: the figures 1, 2 and 3 are all mid-grey and are all L-shapes and each have a small circle in one corner, and only this option does the same (cao) **B1**

**Answer: C) A small mid-grey L-shape and a small solid black circle in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)**

## Question 4

selects option E: the figures 1, 2 and 3 are all semicircles and are each made of 3 shapes, and only this option does the same (cao) **B1**

**Answer: E) Three small unshaded (white) semicircles with their curved sides facing up side by side in a row**

## Question 5

selects option A: the figures 1, 2 and 3 all have the same orientation (turned 180 degrees clockwise from upright) and are all medium and each have a small star in one corner, and only this option does the same (cao) **B1**

**Answer: A) A medium diagonally hatched pentagon with one point facing down and a small solid black star with one point facing up in the bottom-left**

## Question 6

selects option B: the figures 1, 2 and 3 are each made of 1 shape and are all parallelograms, and only this option does the same (cao) **B1**

**Answer: B) A medium solid black parallelogram (upright, the parallelogram has its long sides horizontal, slanting up to the right)**

## Question 7

selects option D: the figures 1, 2 and 3 are each made of 1 shape and are all diamonds, and only this option does the same (cao) **B1**

**Answer: D) A medium mid-grey diamond**

## Question 8

Correct option identified (D oe) - inner shape's sides equal the number of outside rays plus 1 **B1**

**Answer: D**

## Question 9

selects option A: the figures 1, 2 and 3 are all unshaded (white) and each have a small shape in the top-left corner, and only this option does the same (cao) **B1**

**Answer: A) A small unshaded (white) pentagon with one point facing up and a small solid black circle in the top-left**

## Question 10

selects option C: the figures 1, 2 and 3 all have the same orientation (turned 315 degrees clockwise from upright) and are all unshaded (white) and are all right-angled triangles, and only this option does the same (cao) **B1**

**Answer: C) A medium unshaded (white) right-angled triangle (turned 315 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)**

## Question 11

selects option D: the figures 1, 2 and 3 each have a smaller shape of a different kind inside and are all unshaded (white), and only this option does the same (cao) **B1**

**Answer: D) A large unshaded (white) circle, with a small solid black square centred inside it**

## Question 12

selects option B: the figures 1, 2 and 3 each have a smaller shape of a different kind inside and are all large and are all circles, and only this option does the same (cao) **B1**

**Answer: B) A large unshaded (white) circle, with a small solid black square centred inside it**

## Question 13

selects option E: the figures 1, 2 and 3 are all semicircles and each have a small shape in the top-right corner, and only this option does the same (cao) **B1**

**Answer: E) A large cross-hatched semicircle with its curved side facing up and a small solid black star with one point facing up in the top-right**

## Question 14

selects option B: the figures 1, 2 and 3 are all large and each have a small shape in the bottom-right corner and are all arrows, and only this option does the same (cao) **B1**

**Answer: B) A large mid-grey arrow pointing up and a small solid black triangle with one point facing up in the bottom-right**

## Question 15

selects option C: the figures 1, 2 and 3 are all arrows and all have the same orientation (turned 270 degrees clockwise from upright), and only this option does the same (cao) **B1**

**Answer: C) A medium unshaded (white) arrow pointing left**


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## Question 16

selects option D: the figures 1, 2 and 3 each has a small solid black square in the top-right corner, and only this option does the same (cao) **B1**

**Answer: D) A large mid-grey right-angled triangle and a small solid black square in the top-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)**

## Question 17

Correct option identified (A oe) - exactly two tick marks across the middle of the shape's one longest side, all other sides plain **B1**

**Answer: A**

## Question 18

selects option D: the figures 1, 2 and 3 are all triangles and are each made of 1 shape, and only this option does the same (cao) **B1**

**Answer: D) A medium mid-grey triangle with one point facing up**

## Question 19

selects option B: the figures 1, 2 and 3 are all pentagons and each have a small star in one corner and are all large, and only this option does the same (cao) **B1**

**Answer: B) A large dotted pentagon with one point facing up and a small solid black star with one point facing up in the bottom-right**

## Question 20

selects option C: the figures 1, 2 and 3 are all squares and each have a smaller shape of a different kind inside and are all mid-grey, and only this option does the same (cao) **B1**

**Answer: C) A large mid-grey square, with a small solid black hexagon centred inside it (upright, the hexagon has its flat top and bottom)**

## Question 21

Correct option identified (A oe) - single solid black arrow from the centre pointing directly towards the shape's one longest side **B1**

**Answer: A**

## Question 22

selects option C: the figures 1, 2 and 3 are each made of 2 shapes, and only this option does the same (cao) **B1**

**Answer: C) Two small mid-grey parallelograms side by side in a row (upright, the parallelogram has its long sides horizontal, slanting up to the right)**

## Question 23

selects option A: the figures 1, 2 and 3 each have a smaller shape of a different kind inside and are all large and are all squares, and only this option does the same (cao) **B1**

**Answer: A) A large mid-grey square, with a small solid black hexagon centred inside it (upright, the hexagon has its flat top and bottom)**

## Question 24

selects option B: the figures 1, 2 and 3 are all hearts and are each made of 1 shape, and only this option does the same (cao) **B1**

**Answer: B) A medium solid black heart with its point facing down**

## Question 25

selects option B: the figures 1, 2 and 3 each have a small shape in the top-right corner and are all stars, and only this option does the same (cao) **B1**

**Answer: B) A medium unshaded (white) star with one point facing up and a small solid black circle in the top-right**

## Question 26

selects option E: the figures 1, 2 and 3 are all medium and are all squares and each have a small circle in one corner, and only this option does the same (cao) **B1**

**Answer: E) A medium dotted square and a small solid black circle in the bottom-right**

## Question 27

selects option C: the figures 1, 2 and 3 are all hexagons, and only this option does the same (cao) **B1**

**Answer: C) A large solid black hexagon (upright, the hexagon has its flat top and bottom)**

## Question 28

selects option A: the figures 1, 2 and 3 each have a small shape in the top-left corner and each have a small triangle in one corner and are all squares, and only this option does the same (cao) **B1**

**Answer: A) A medium unshaded (white) square and a small solid black triangle with one point facing up in the top-left**

## Question 29

selects option C: the figures 1, 2 and 3 are each made of 1 shape and are all arrows, and only this option does the same (cao) **B1**

**Answer: C) A medium unshaded (white) arrow pointing up**

## Question 30

selects option A: the figures 1, 2 and 3 are each made of 2 shapes, and only this option does the same (cao) **B1**

**Answer: A) Two small solid black right-angled triangles side by side in a row (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)**

## Question 31

selects option E: the figures 1, 2 and 3 are each made of 1 shape and are all right-angled triangles, and only this option does the same (cao) **B1**

**Answer: E) A medium mid-grey right-angled triangle (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)**


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## Question 32

selects option D: the figures 1, 2 and 3 are all hearts and are all solid black and each have a small shape in the bottom-right corner, and only this option does the same (cao) **B1**

**Answer: D) A small solid black heart with its point facing down and a small solid black star with one point facing up in the bottom-right**

## Question 33

selects option B: the figures 1, 2 and 3 are each made of 1 shape and are all mid-grey, and only this option does the same (cao) **B1**

**Answer: B) A medium mid-grey hexagon (upright, the hexagon has its flat top and bottom)**

## Question 34

selects option A: the figures 1, 2 and 3 are all circles, and only this option does the same (cao) **B1**

**Answer: A) A medium solid black circle**

## Question 35

selects option B: the figures 1, 2 and 3 each have a small circle in one corner and are all flags, and only this option does the same (cao) **B1**

**Answer: B) A large unshaded (white) flag and a small solid black circle in the bottom-right (upright, the flag has its pole on the left, pennant pointing right from the top)**

## Question 36

selects option D: the figures 1, 2 and 3 each have a small square in one corner and are all parallelograms and are all mid-grey, and only this option does the same (cao) **B1**

**Answer: D) A small mid-grey parallelogram and a small solid black square in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)**

## Question 37

selects option C: the figures 1, 2 and 3 each have a smaller copy of their own shape inside and are all solid black, and only this option does the same (cao) **B1**

**Answer: C) A large solid black square, with a small unshaded (white) square centred inside it**

## Question 38

selects option D: the figures 1, 2 and 3 are all right-angled triangles, and only this option does the same (cao) **B1**

**Answer: D) A medium mid-grey right-angled triangle (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)**

## Question 39

selects option A: the figures 1, 2 and 3 each have a small shape in the bottom-left corner and each have a small triangle in one corner, and only this option does the same (cao) **B1**

**Answer: A) A small solid black square and a small solid black triangle with one point facing up in the bottom-left**

## Question 40

selects option C: the figures 1, 2 and 3 are all flags and are all solid black, and only this option does the same (cao) **B1**

**Answer: C) A medium solid black flag (upright, the flag has its pole on the left, pennant pointing right from the top)**

## Question 41

selects option E: the figures 1, 2 and 3 are all mid-grey, and only this option does the same (cao) **B1**

**Answer: E) A small mid-grey hexagon (upright, the hexagon has its flat top and bottom)**

## Question 42

Correct option identified (B oe) - number of dots above the shape equals its number of sides minus 1 **B1**

**Answer: B**

## Question 43

selects option A: the figures 1, 2 and 3 each have a small shape in the top-right corner and are all hexagons and each have a small square in one corner, and only this option does the same (cao) **B1**

**Answer: A) A medium dotted hexagon and a small solid black square in the top-right (upright, the hexagon has its flat top and bottom)**

## Question 44

selects option C: the figures 1, 2 and 3 are all large and are all arrows, and only this option does the same (cao) **B1**

**Answer: C) A large diagonally hatched arrow pointing up**

## Question 45

selects option E: the figures 1, 2 and 3 each have a small circle in one corner, and only this option does the same (cao) **B1**

**Answer: E) A large solid black right-angled triangle and a small solid black circle in the bottom-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)**

## Question 46

selects option E: the figures 1, 2 and 3 are all crosses and are all mid-grey, and only this option does the same (cao) **B1**

**Answer: E) A large mid-grey cross**

## Question 47

selects option C: the figures 1, 2 and 3 are all triangles, and only this option does the same (cao) **B1**

**Answer: C) A large mid-grey triangle with one point facing up**

## Question 48

selects option D: the figures 1, 2 and 3 are all large and are all arrows, and only this option does the same (cao) **B1**

**Answer: D) A large dotted arrow pointing up**


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## Question 49

selects option B: the figures 1, 2 and 3 are all flags and each have a small star in one corner, and only this option does the same (cao) **B1**

**Answer: B) A large mid-grey flag and a small solid black star with one point facing up in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top)**

## Question 50

Correct option identified (D oe) - four-sided shape split bottom-left to top-right, upper-left half black, lower-right half white **B1**

**Answer: D**

## Question 51

selects option B: the figures 1, 2 and 3 are each made of 4 shapes, and only this option does the same (cao) **B1**

**Answer: B) Four small mid-grey rectangles arranged in a block (upright, the rectangle has its long sides horizontal)**

## Question 52

selects option D: the figures 1, 2 and 3 each have a small shape in the top-left corner and all have the same orientation (turned 270 degrees clockwise from upright) and are all semicircles, and only this option does the same (cao) **B1**

**Answer: D) A large dotted semicircle with its curved side facing left and a small solid black circle in the top-left**

## Question 53

selects option C: the figures 1, 2 and 3 are all L-shapes, and only this option does the same (cao) **B1**

**Answer: C) A large diagonally hatched L-shape (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)**

## Question 54

selects option A: the figures 1, 2 and 3 each have a small shape in the bottom-left corner and are all hexagons, and only this option does the same (cao) **B1**

**Answer: A) A medium cross-hatched hexagon and a small solid black circle in the bottom-left (upright, the hexagon has its flat top and bottom)**

## Question 55

selects option B: the figures 1, 2 and 3 each have a small star in one corner, and only this option does the same (cao) **B1**

**Answer: B) A small unshaded (white) circle and a small solid black star with one point facing up in the bottom-left**

## Question 56

selects option E: the figures 1, 2 and 3 each have a small star in one corner and are all solid black, and only this option does the same (cao) **B1**

**Answer: E) A medium solid black triangle with one point facing up and a small solid black star with one point facing up in the top-right**

## Question 57

selects option D: the figures 1, 2 and 3 each have a small shape in the bottom-right corner and are all hearts and are all solid black, and only this option does the same (cao) **B1**

**Answer: D) A medium solid black heart with its point facing down and a small solid black star with one point facing up in the bottom-right**

## Question 58

selects option A: the figures 1, 2 and 3 each have a small shape in the top-right corner and each have a small triangle in one corner, and only this option does the same (cao) **B1**

**Answer: A) A large solid black star with one point facing up and a small solid black triangle with one point facing up in the top-right**

## Question 59

Correct option identified (E oe) - number of outward-pointing side-midpoint arrows equals the number of sides **B1**

**Answer: E**

## Question 60

selects option A: the figures 1, 2 and 3 are all flags and each have a small shape in the bottom-left corner, and only this option does the same (cao) **B1**

**Answer: A) A medium cross-hatched flag and a small solid black star with one point facing up in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top)**

## Question 61

selects option E: the figures 1, 2 and 3 each have a small square in one corner and are all mid-grey and each have a small shape in the bottom-right corner, and only this option does the same (cao) **B1**

**Answer: E) A small mid-grey arrow pointing up and a small solid black square in the bottom-right**

## Question 62

selects option B: the figures 1, 2 and 3 are each made of 1 shape, and only this option does the same (cao) **B1**

**Answer: B) A medium unshaded (white) arrow pointing up**

## Question 63

selects option C: the figures 1, 2 and 3 are all pentagons and each have a smaller copy of their own shape inside and are all large, and only this option does the same (cao) **B1**

**Answer: C) A large diagonally hatched pentagon with one point facing up, with a small solid black pentagon with one point facing up centred inside it**

## Question 64

selects option C: the figures 1, 2 and 3 are each made of 2 shapes and are all hexagons, and only this option does the same (cao) **B1**

**Answer: C) Two small mid-grey hexagons side by side in a row (upright, the hexagon has its flat top and bottom)**


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## Question 65

selects option D: the figures 1, 2 and 3 each have a smaller shape of a different kind inside and are all unshaded (white), and only this option does the same (cao) **B1**

**Answer: D) A small unshaded (white) pentagon with one point facing up, with a small solid black circle centred inside it**

## Question 66

selects option A: the figures 1, 2 and 3 are all hexagons and each have a smaller shape of a different kind inside and are all large, and only this option does the same (cao) **B1**

**Answer: A) A large solid black hexagon, with a small unshaded (white) pentagon with one point facing up centred inside it (upright, the hexagon has its flat top and bottom)**

## Question 67

selects option E: the figures 1, 2 and 3 are all unshaded (white) and each have a small square in one corner, and only this option does the same (cao) **B1**

**Answer: E) A medium unshaded (white) hexagon and a small solid black square in the top-right (upright, the hexagon has its flat top and bottom)**

## Question 68

Correct option identified (E oe) - radius angle, measured clockwise from 12 o'clock, equals the number of triangles multiplied by 30 degrees **B1**

**Answer: E**

## Question 69

selects option A: the figures 1, 2 and 3 are all flags, and only this option does the same (cao) **B1**

**Answer: A) A large solid black flag (upright, the flag has its pole on the left, pennant pointing right from the top)**

## Question 70

selects option C: the figures 1, 2 and 3 each have a small square in one corner and each have a small shape in the top-right corner, and only this option does the same (cao) **B1**

**Answer: C) A large solid black rectangle and a small solid black square in the top-right (upright, the rectangle has its long sides horizontal)**

## Question 71

selects option E: the figures 1, 2 and 3 each have a small shape in the top-left corner and are all arrows and each have a small star in one corner, and only this option does the same (cao) **B1**

**Answer: E) A medium diagonally hatched arrow pointing up and a small solid black star with one point facing up in the top-left**

## Question 72

selects option B: the figures 1, 2 and 3 are all unshaded (white) and are all triangles, and only this option does the same (cao) **B1**

**Answer: B) A small unshaded (white) triangle with one point facing up**

## Question 73

selects option E: the figures 1, 2 and 3 are all pentagons, and only this option does the same (cao) **B1**

**Answer: E) A medium mid-grey pentagon with one point facing up**

## Question 74

selects option B: the figures 1, 2 and 3 are all medium and are all solid black, and only this option does the same (cao) **B1**

**Answer: B) A medium solid black arrow pointing up**

## Question 75

selects option A: the figures 1, 2 and 3 are all hexagons and are all medium, and only this option does the same (cao) **B1**

**Answer: A) A medium solid black hexagon (upright, the hexagon has its flat top and bottom)**

## Question 76

selects option C: the figures 1, 2 and 3 are all crosses, and only this option does the same (cao) **B1**

**Answer: C) A small unshaded (white) cross**

## Question 77

Correct option identified (B oe) - half-size unshaded copy in the top-right corner, rotated 180 degrees from the main shape **B1**

**Answer: B**

## Question 78

selects option B: the figures 1, 2 and 3 each have a smaller shape of a different kind inside and are all hexagons and are all unshaded (white), and only this option does the same (cao) **B1**

**Answer: B) A large unshaded (white) hexagon, with a small solid black circle centred inside it (upright, the hexagon has its flat top and bottom)**

## Question 79

selects option C: the figures 1, 2 and 3 are all right-angled triangles and all have the same orientation (turned 180 degrees clockwise from upright), and only this option does the same (cao) **B1**

**Answer: C) A large solid black right-angled triangle (turned 180 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)**

## Question 80

selects option A: the figures 1, 2 and 3 all have the same orientation (turned 225 degrees clockwise from upright), and only this option does the same (cao) **B1**

**Answer: A) A small unshaded (white) triangle with one point facing down-left**

## Question 81

selects option D: the figures 1, 2 and 3 each have a small triangle in one corner and are all mid-grey and each have a small shape in the top-right corner, and only this option does the same (cao) **B1**

**Answer: D) A medium mid-grey pentagon with one point facing up and a small solid black triangle with one point facing up in the top-right**


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## Question 82

selects option C: the figures 1, 2 and 3 are all crosses and are each made of 1 shape, and only this option does the same (cao) **B1**

**Answer: C) A medium unshaded (white) cross**


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