4.3 Matrices: 2-hour Pack

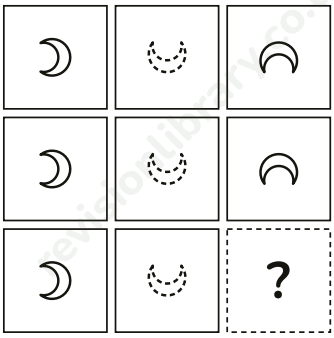
GL ASSESSMENT EP.N3 · Calculators not allowed · about 120 minutes

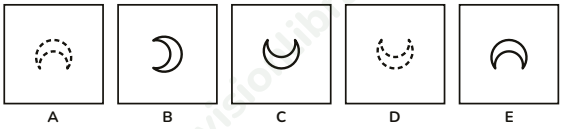
Total Marks

Name: _____ Date: ____ / ____ / _____

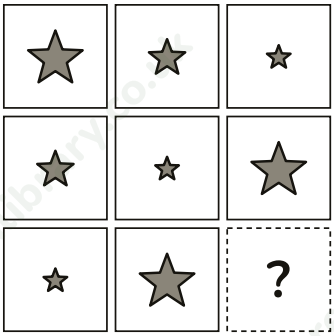
Answer ALL questions. Show all your working.

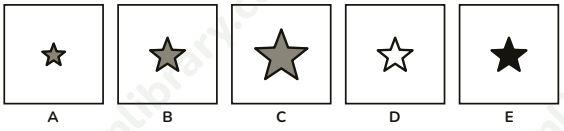
1 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



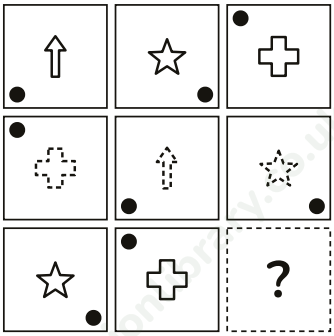


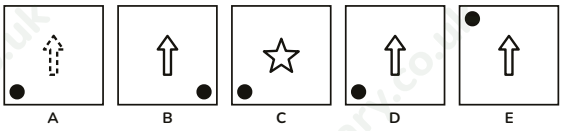
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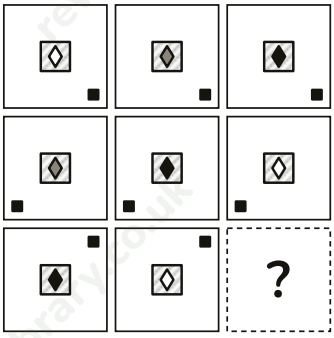


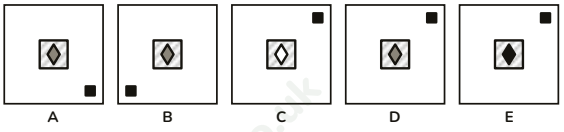
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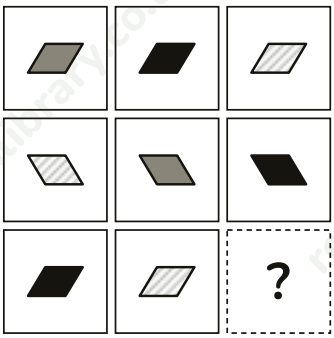
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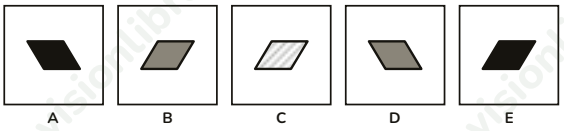




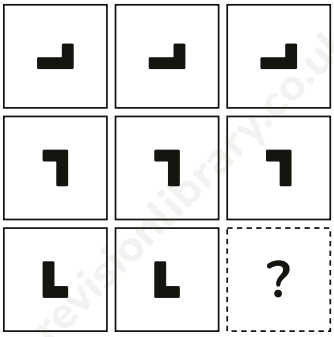
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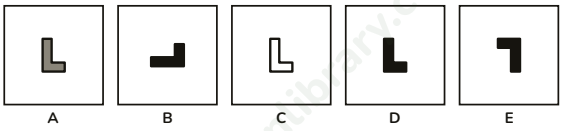
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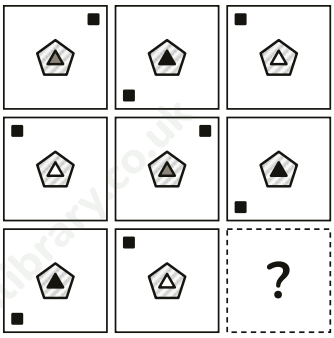


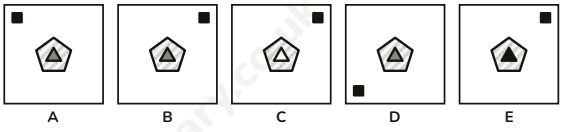
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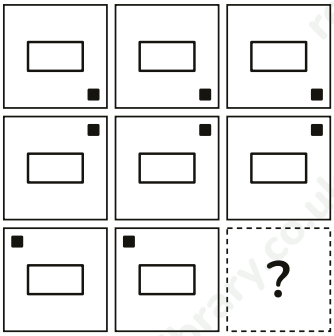


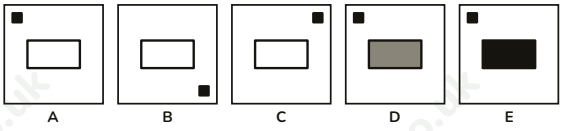
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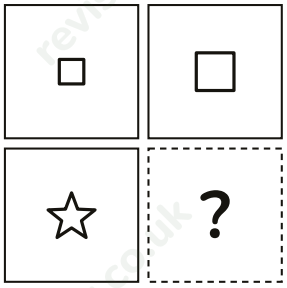


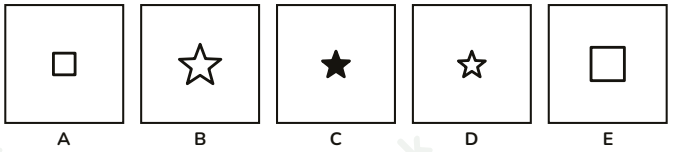
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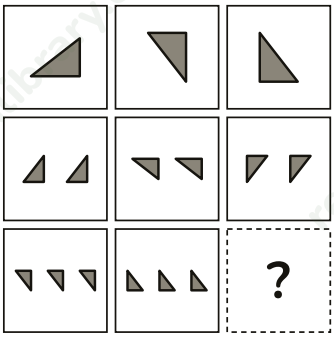
9 Study the 2x2 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?

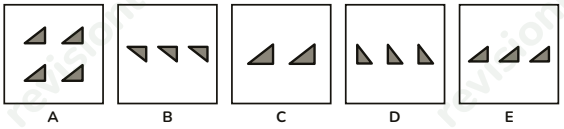




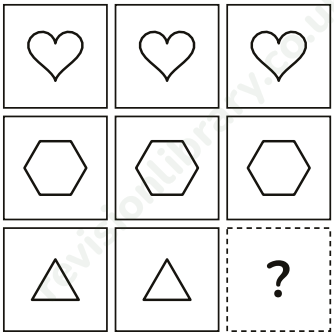
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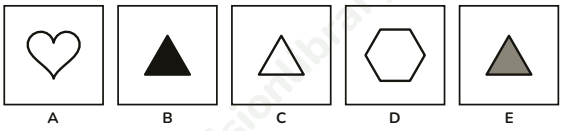
10 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



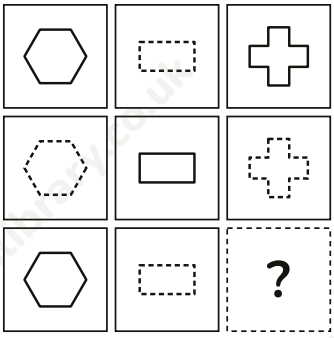


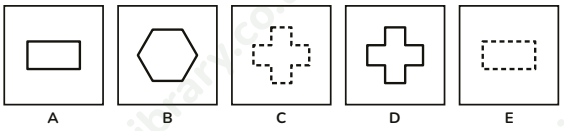
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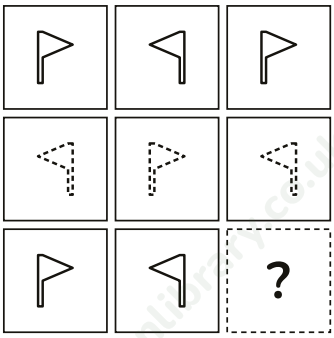


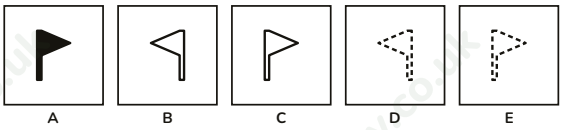
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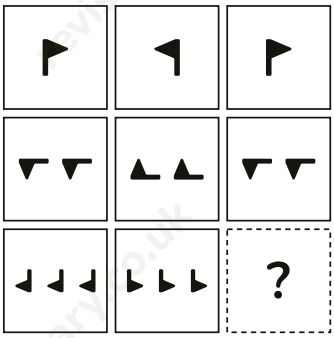


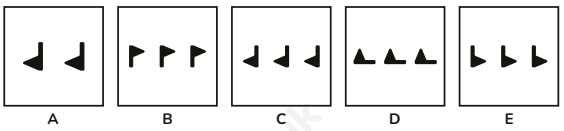
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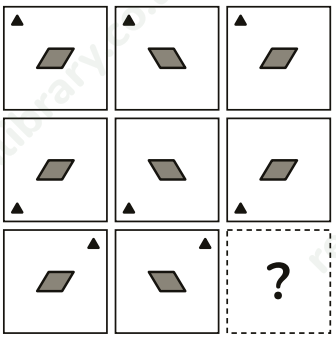
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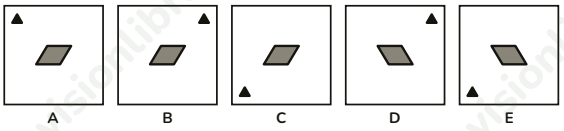




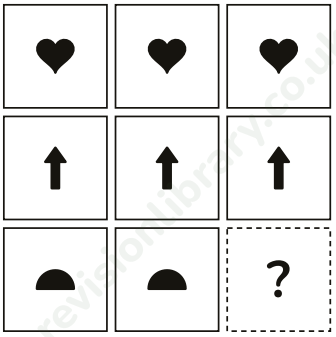
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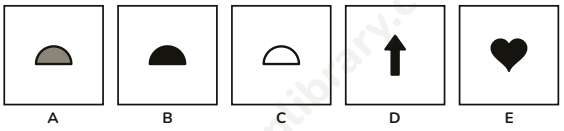
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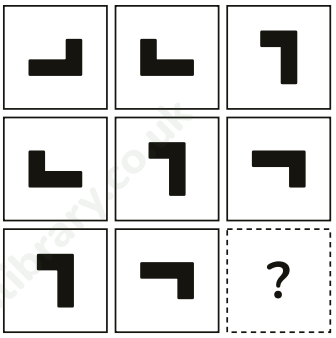


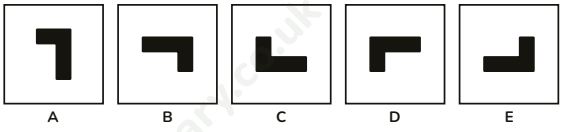
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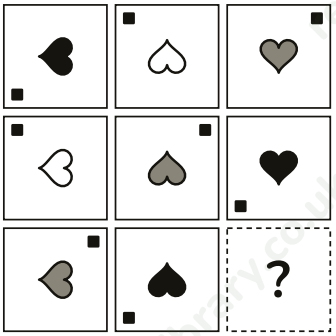


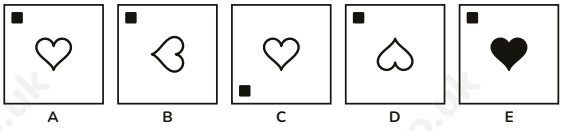
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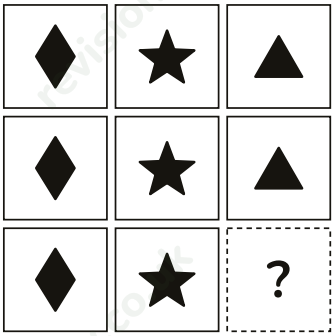


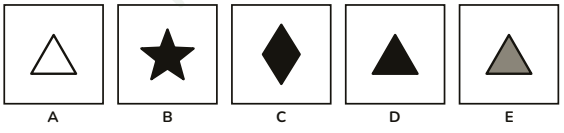
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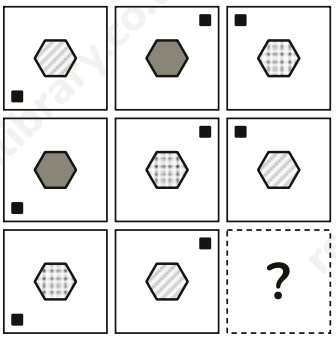
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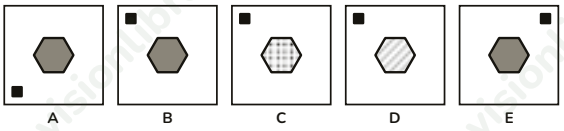




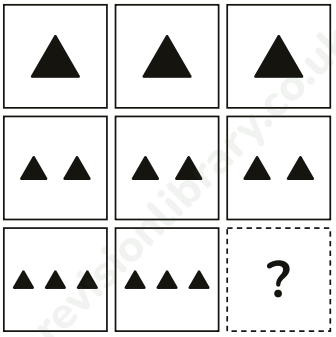
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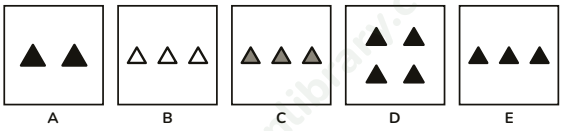
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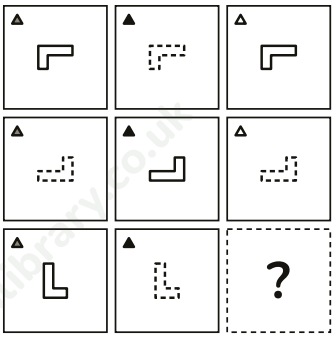


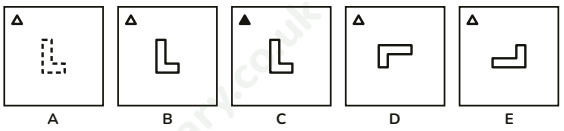
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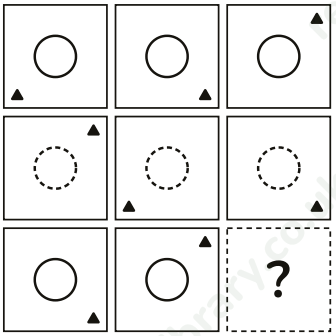


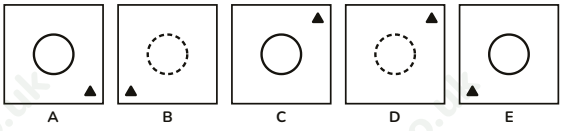
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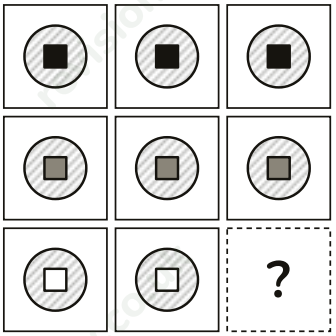


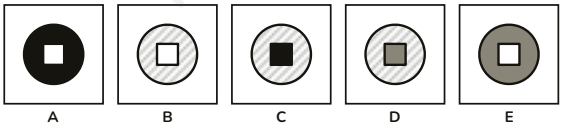
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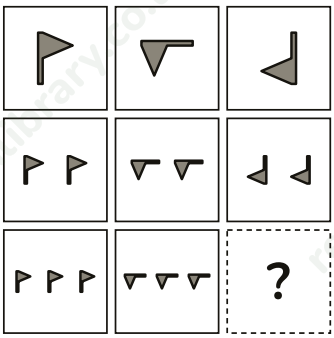
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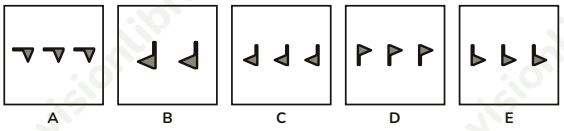




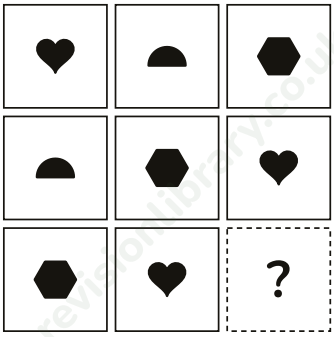
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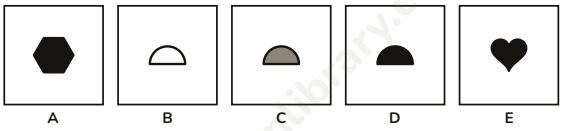
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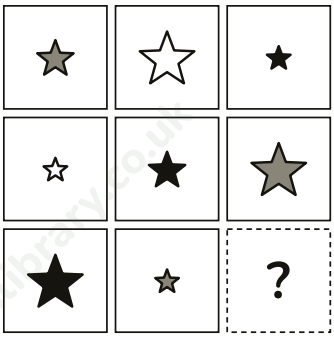


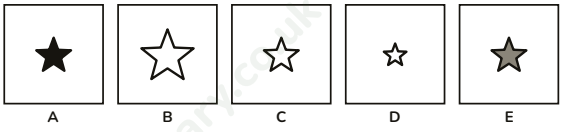
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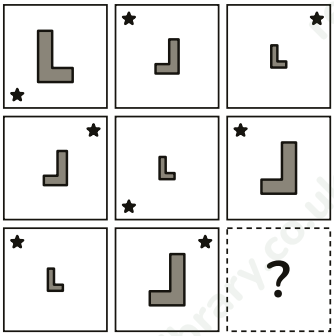


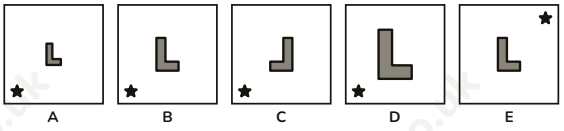
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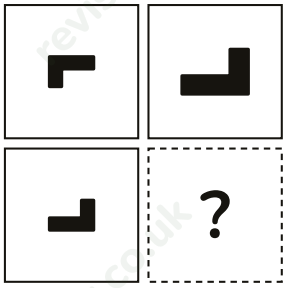


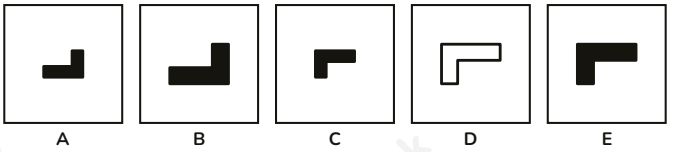
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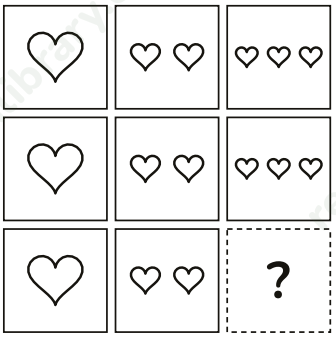
29 Study the 2x2 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?

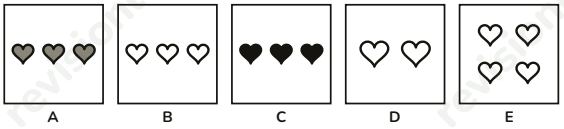




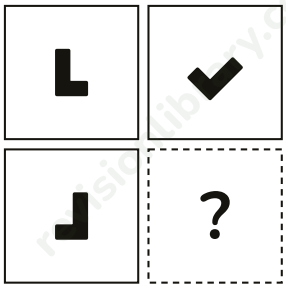
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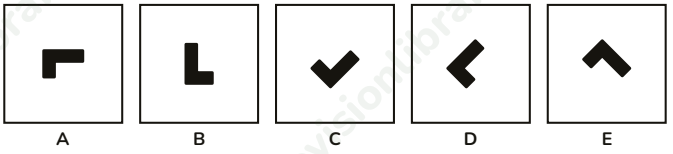
30 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



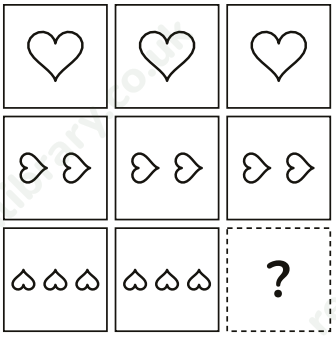


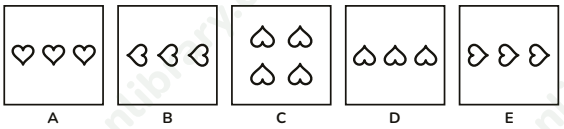
31 Study the 2x2 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



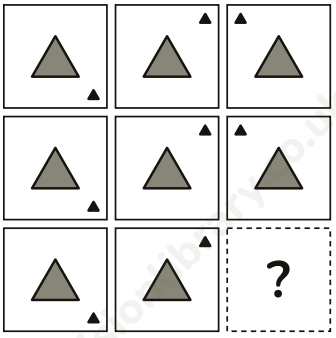


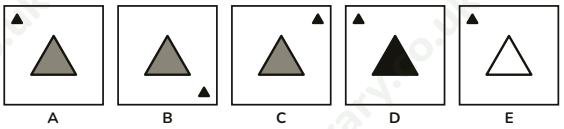
32 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



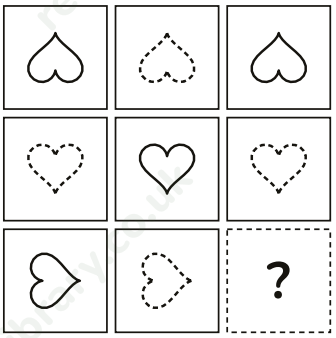


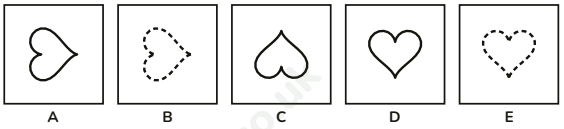
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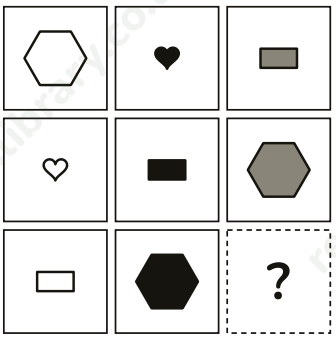
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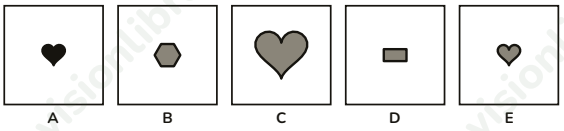




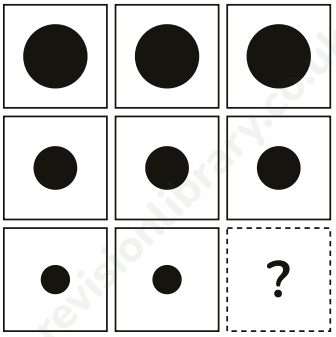
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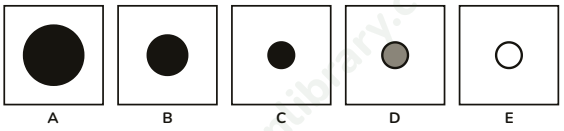
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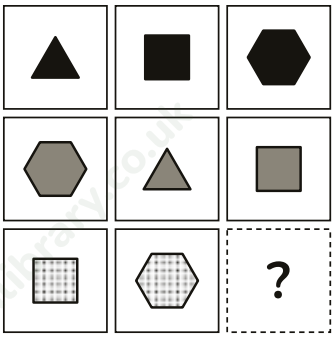


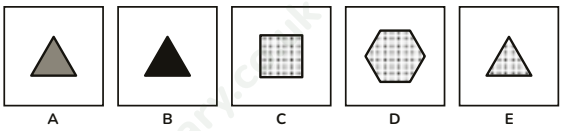
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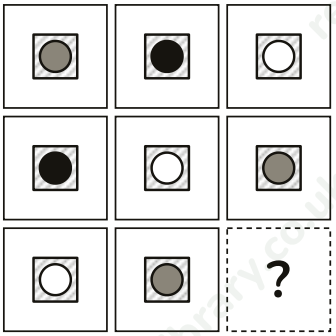


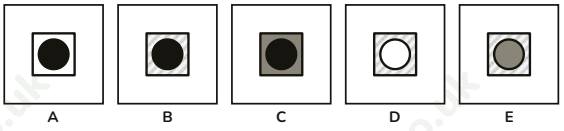
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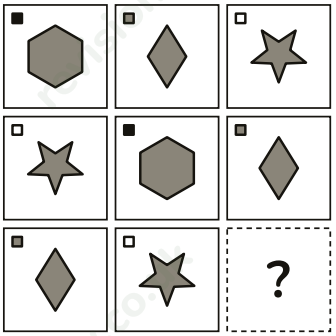


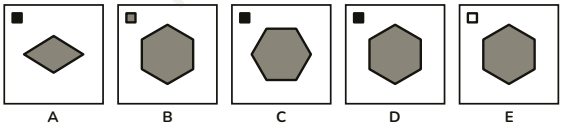
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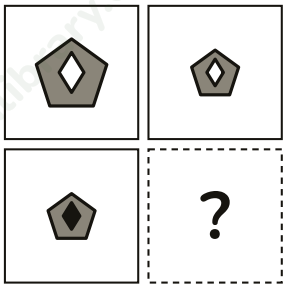
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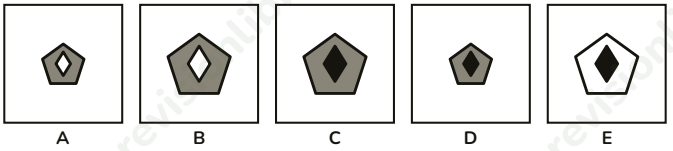




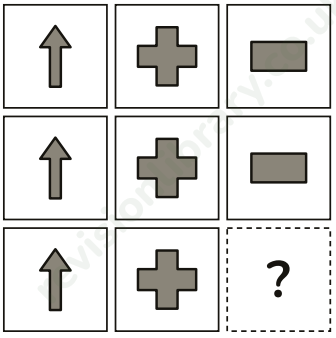
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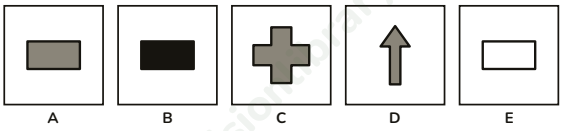
40 Study the 2x2 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



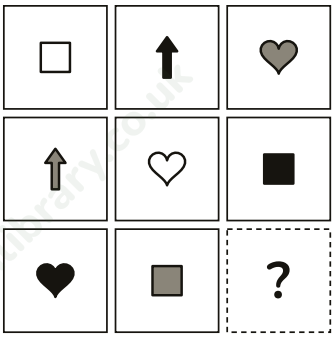


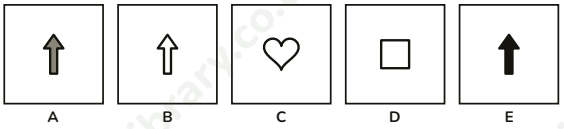
41 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



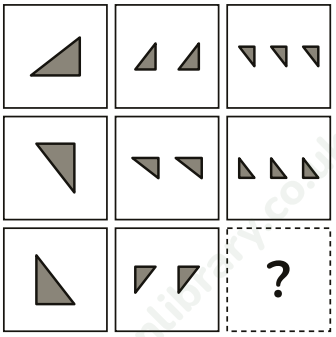


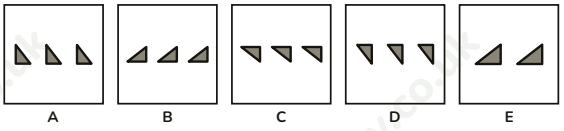
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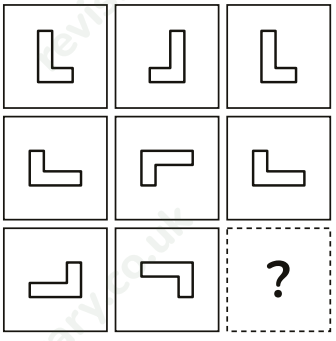


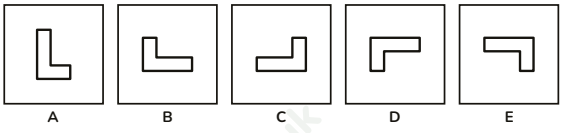
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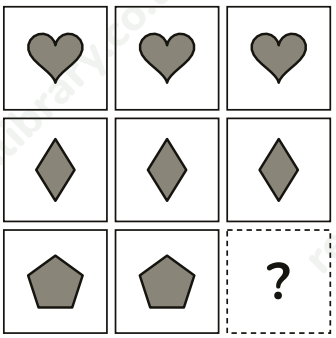
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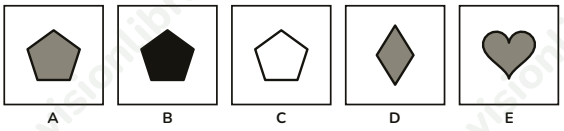




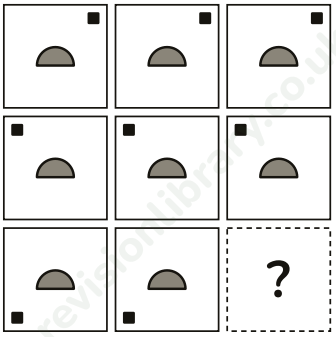
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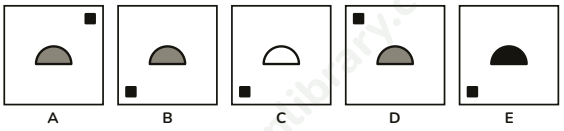
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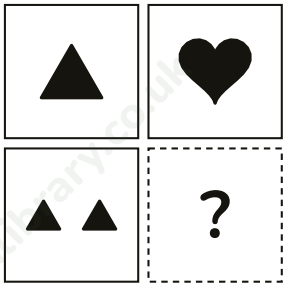


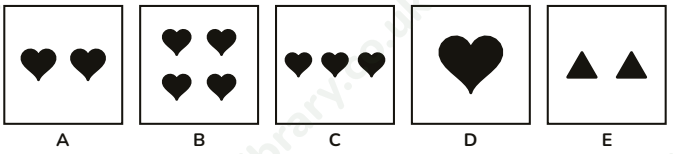
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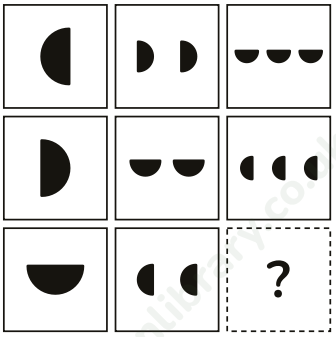


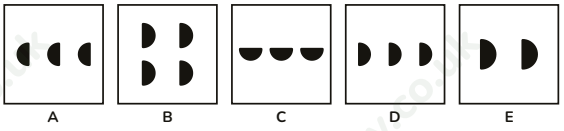
47 Study the 2x2 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



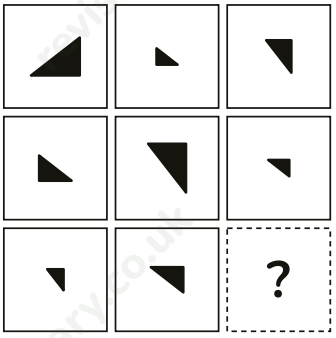


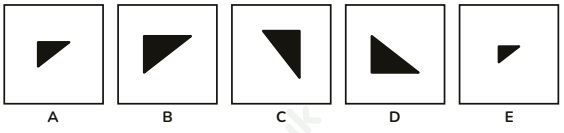
48 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?





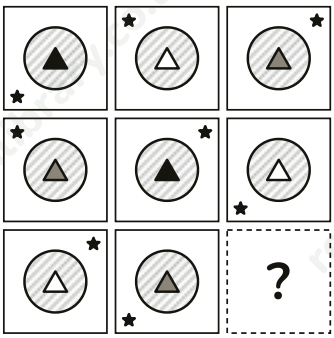
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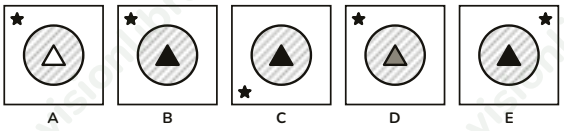




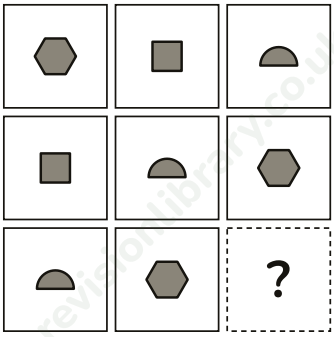
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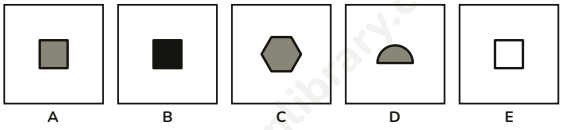
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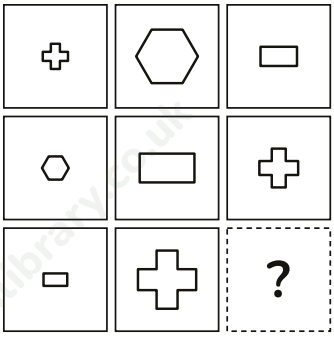


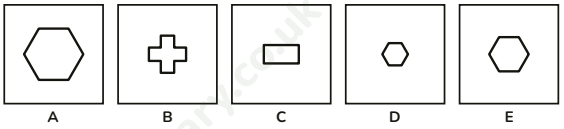
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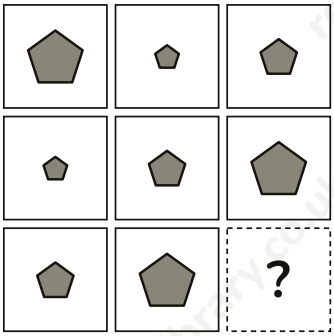


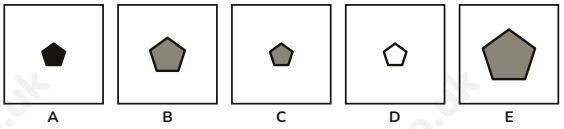
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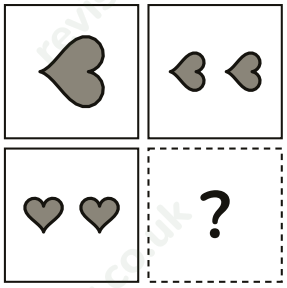


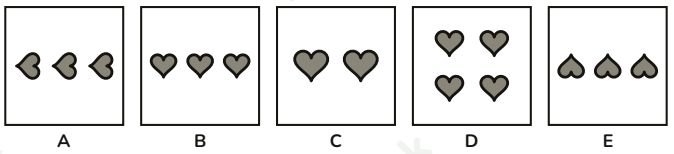
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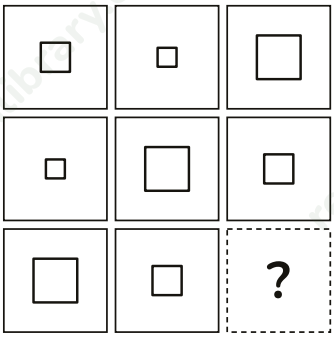
54 Study the 2x2 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?

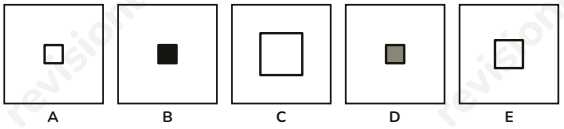




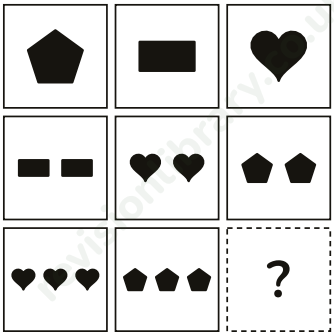
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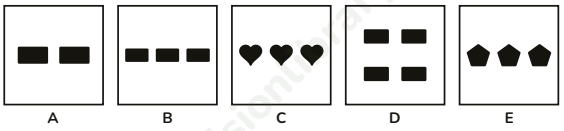
55 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



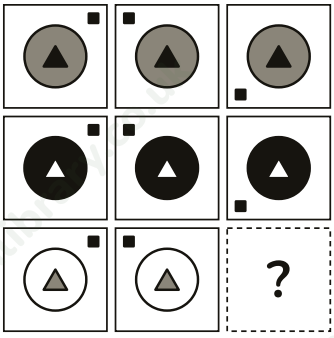


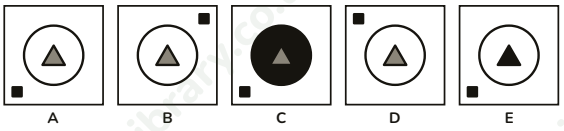
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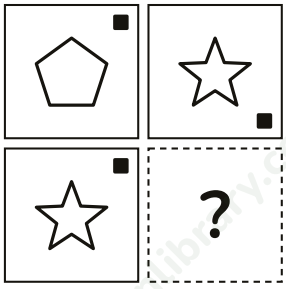


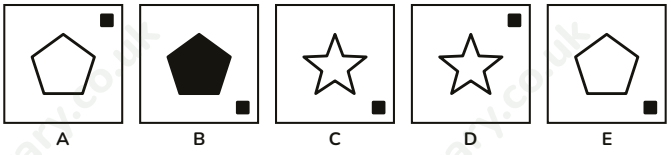
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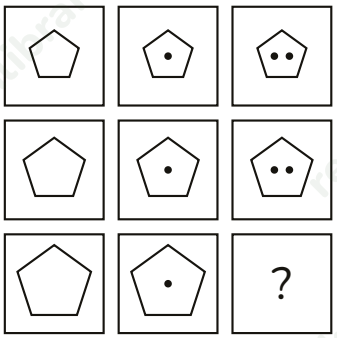
58 Study the 2x2 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?

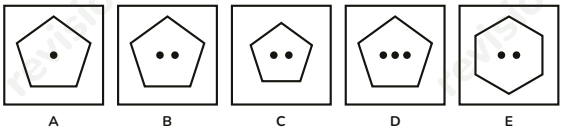




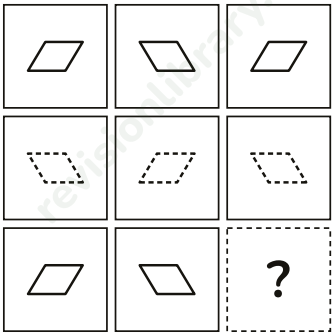
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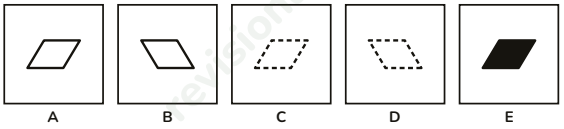
59 Study the 3x3 matrix of figures below. One rule links the figures across each row; a second rule links the figures down each column. The bottom-right cell is missing, marked '?'. Identify which option completes the matrix.



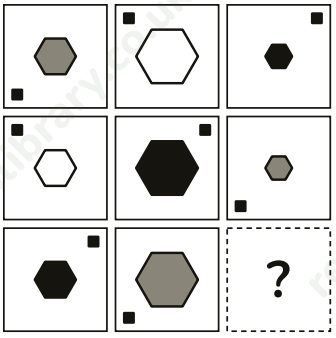


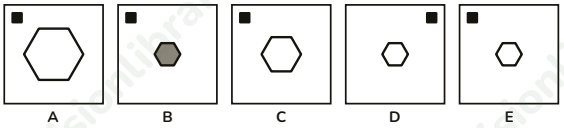
60 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



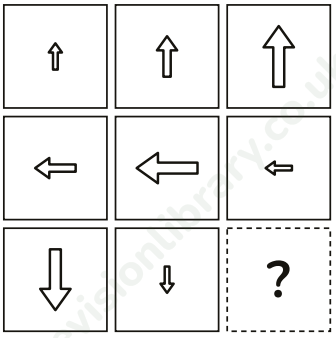


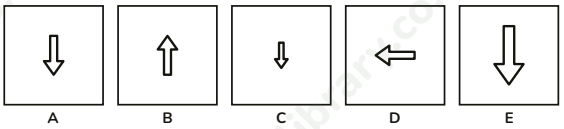
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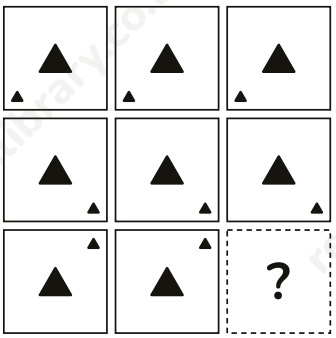
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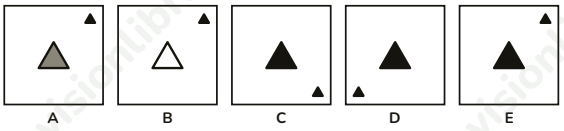




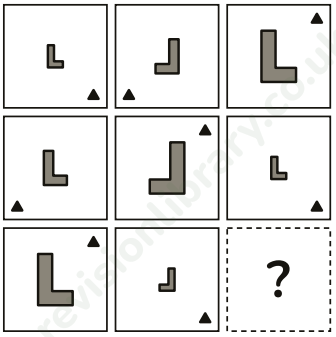
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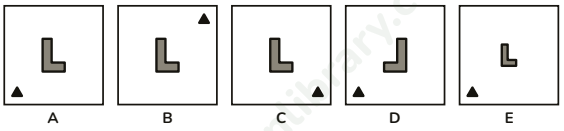
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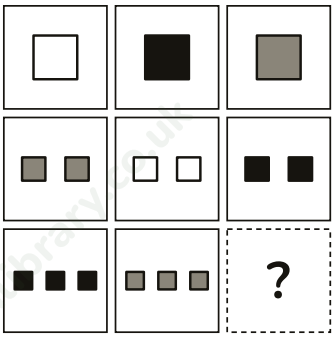


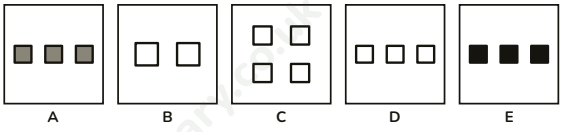
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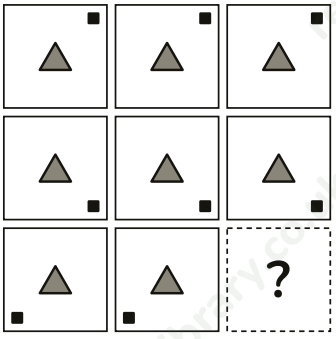


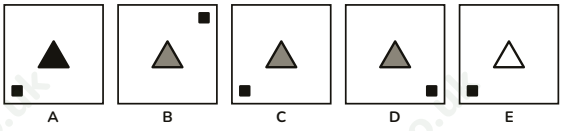
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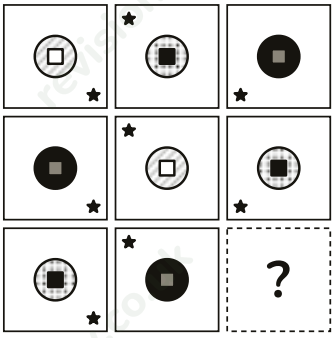


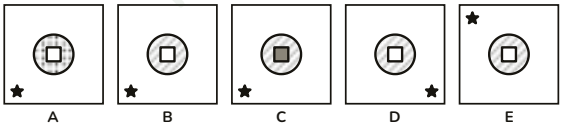
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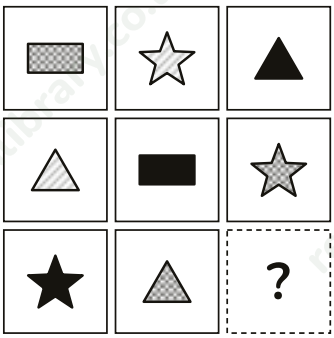
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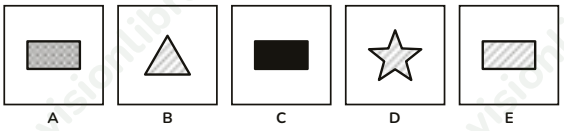




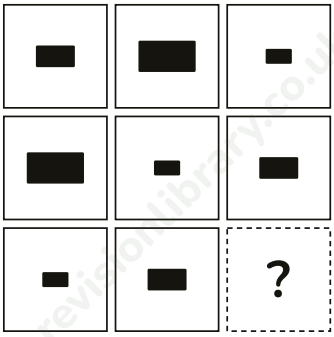
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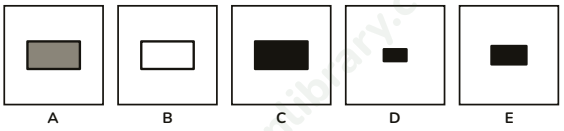
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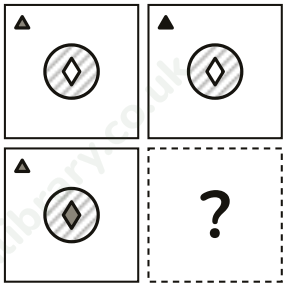


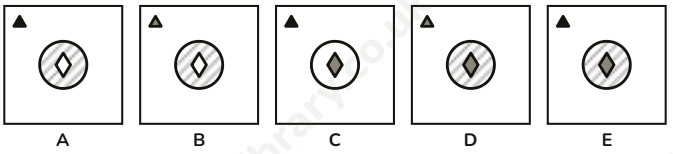
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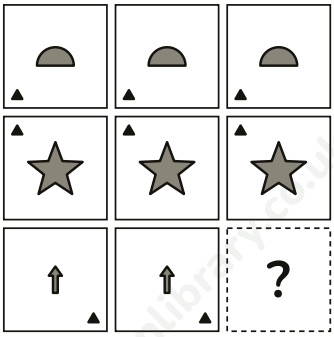


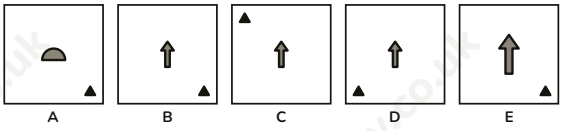
70 Study the 2x2 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?



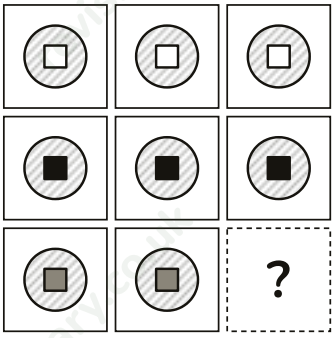


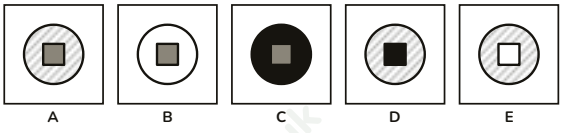
71 Study the 3x3 matrix of figures below. The bottom-right cell is missing, marked '?'. Which option completes the matrix?





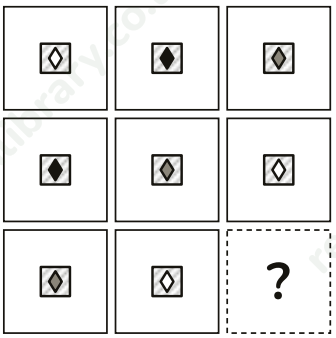
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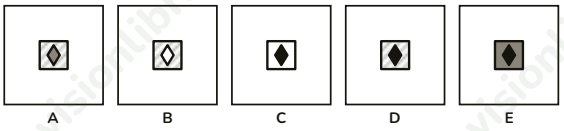




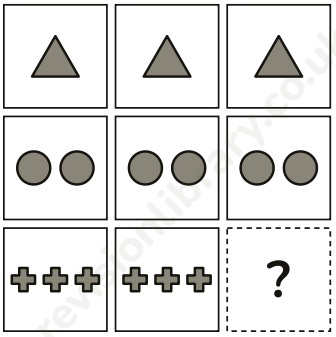
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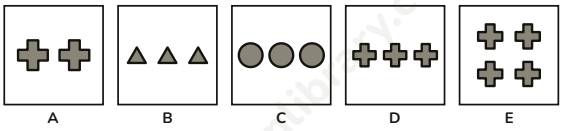
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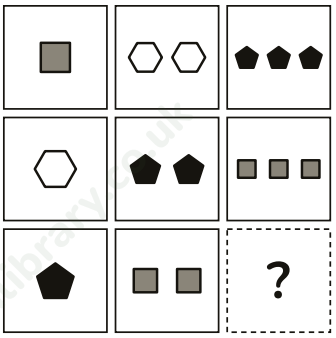


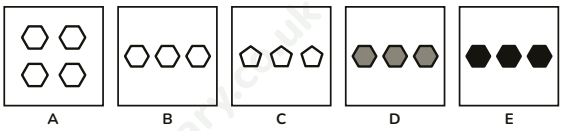
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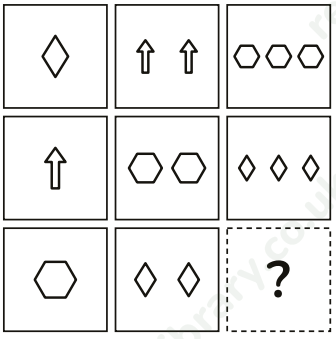


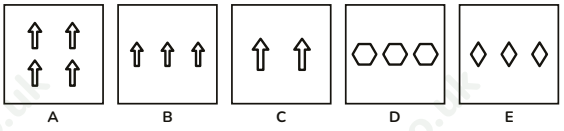
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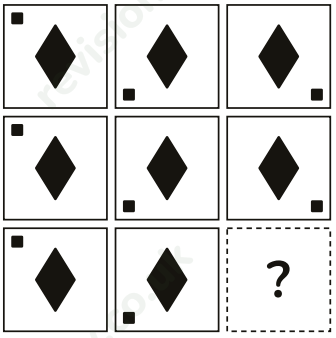


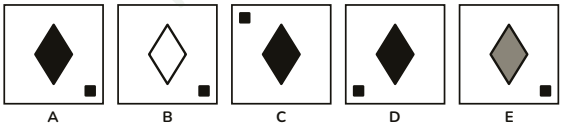
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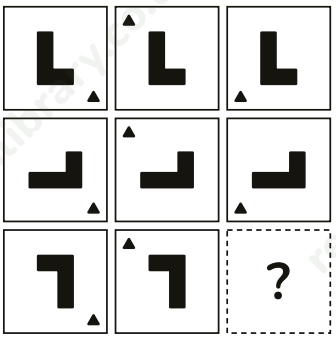
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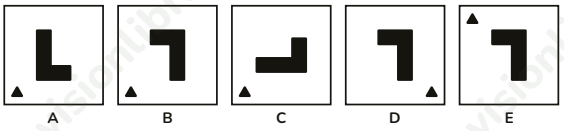




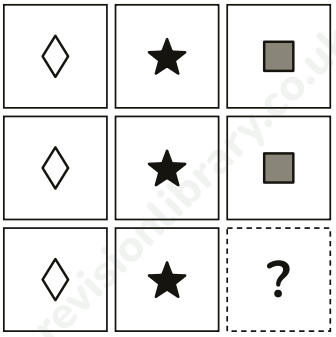
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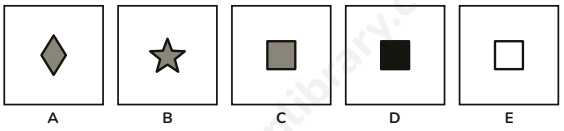
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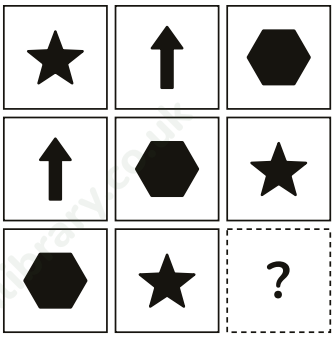


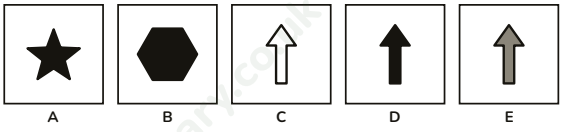
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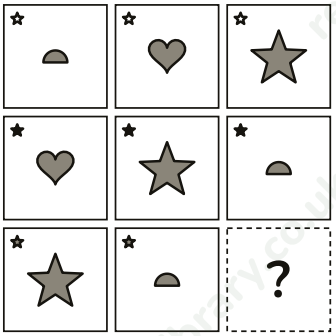


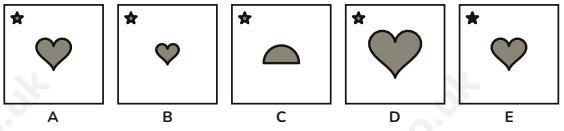
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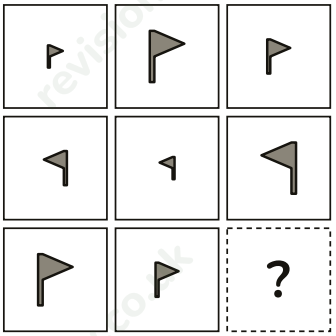


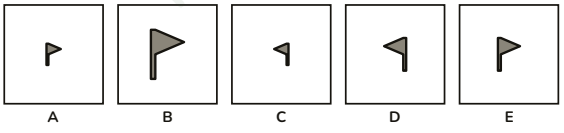
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Mark scheme · 4.3 Matrices: 2-hour Pack

Question 1

selects option E: the orientation is the same down each column and changes from column to column; the outline style is the same down each column and changes from column to column, which gives A medium unshaded (white) crescent with its tips facing down (cao) **B1**

Answer: E) A medium unshaded (white) crescent with its tips facing down

Question 2

selects option B: the size uses each value once in every row and every column, which gives A medium mid-grey star with one point facing up (cao) **B1**

Answer: B) A medium mid-grey star with one point facing up

Question 3

selects option D: the shape uses each value once in every row and every column; the position of the small shape uses each value once in every row and every column; the outline style is the same along each row and changes from row to row, which gives A medium unshaded (white) arrow pointing up and a small solid black circle in the bottom-left (cao) **B1**

Answer: D) A medium unshaded (white) arrow pointing up and a small solid black circle in the bottom-left

Question 4

selects option D: the position of the small shape is the same along each row and changes from row to row; the shading of the inner shape uses each value once in every row and every column, which gives A medium diagonally hatched square, with a small mid-grey diamond centred inside it and a small solid black square in the top-right (cao) **B1**

Answer: D) A medium diagonally hatched square, with a small mid-grey diamond centred inside it and a small solid black square in the top-right

Question 5

selects option B: the shading uses each value once in every row and every column; the mirror image is the same along each row and changes from row to row, which gives A large mid-grey parallelogram (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: B) A large mid-grey parallelogram (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 6

selects option D: the orientation is the same along each row and changes from row to row, which gives A medium solid black L-shape (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: D) A medium solid black L-shape (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 7

selects option B: the shading of the inner shape uses each value once in every row and every column; the position of the small shape uses each value once in every row and every column, which gives A medium diagonally hatched pentagon with one point facing up, with a small mid-grey triangle with one point facing up centred inside it and a small solid black square in the top-right (cao) **B1**

Answer: B) A medium diagonally hatched pentagon with one point facing up, with a small mid-grey triangle with one point facing up centred inside it and a small solid black square in the top-right

Question 8

selects option A: the position of the small shape is the same along each row and changes from row to row, which gives A large unshaded (white) rectangle and a small solid black square in the top-left (upright, the rectangle has its long sides horizontal) (cao) **B1**

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

Question 9

selects option D: the shape is the same along each row and changes from row to row; the size alternates in a checkerboard pattern, which gives A small unshaded (white) star with one point facing up (cao) **B1**

Answer: D) A small unshaded (white) star with one point facing up

Question 10

selects option E: the orientation uses each value once in every row and every column; the number of shapes is the same along each row and changes from row to row; the mirror image is the same along each row and changes from row to row, which gives Three small mid-grey right-angled triangles (turned 270 degrees clockwise) side by side in a row (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: E) Three small mid-grey right-angled triangles (turned 270 degrees clockwise) 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 11

selects option C: the shape is the same along each row and changes from row to row, which gives A large unshaded (white) triangle with one point facing up (cao) **B1**

Answer: C) A large unshaded (white) triangle with one point facing up

Question 12

selects option D: the outline style alternates in a checkerboard pattern; the shape is the same down each column and changes from column to column, which gives A large unshaded (white) cross (cao) **B1**

Answer: D) A large unshaded (white) cross

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Question 13

selects option C: the outline style is the same along each row and changes from row to row; the mirror image alternates in a checkerboard pattern, which gives A large unshaded (white) flag (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: C) A large unshaded (white) flag (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 14

selects option C: the number of shapes is the same along each row and changes from row to row; the mirror image alternates in a checkerboard pattern; the orientation is the same along each row and changes from row to row, which gives Three small solid black flags (turned 180 degrees clockwise) side by side in a row (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: C) Three small solid black flags (turned 180 degrees clockwise) side by side in a row (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 15

selects option B: the position of the small shape is the same along each row and changes from row to row; the mirror image is the same down each column and changes from column to column, which gives A medium mid-grey parallelogram and a small solid black triangle with one point facing up in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: B) A medium mid-grey parallelogram and a small solid black triangle with one point facing up in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 16

selects option B: the shape is the same along each row and changes from row to row, which gives A medium solid black semicircle with its curved side facing up (cao) **B1**

Answer: B) A medium solid black semicircle with its curved side facing up

Question 17

selects option D: the mirror image alternates in a checkerboard pattern; the orientation uses each value once in every row and every column, which gives A large solid black L-shape (turned 90 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: D) A large solid black L-shape (turned 90 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 18

selects option A: the orientation is the same down each column and changes from column to column; the shading uses each value once in every row and every column; the position of the small shape uses each value once in every row and every column, which gives A medium unshaded (white) heart with its point facing down and a small solid black square in the top-left (cao) **B1**

Answer: A) A medium unshaded (white) heart with its point facing down and a small solid black square in the top-left

Question 19

selects option D: the shape is the same down each column and changes from column to column, which gives A large solid black triangle with one point facing up (cao) **B1**

Answer: D) A large solid black triangle with one point facing up

Question 20

selects option B: the shading uses each value once in every row and every column; the position of the small shape is the same down each column and changes from column to column, which gives A medium mid-grey hexagon and a small solid black square in the top-left (upright, the hexagon has its flat top and bottom) (cao) **B1**

Answer: B) A medium mid-grey hexagon and a small solid black square in the top-left (upright, the hexagon has its flat top and bottom)

Question 21

selects option E: the number of shapes is the same along each row and changes from row to row, which gives Three small solid black triangles with one point facing up side by side in a row (cao) **B1**

Answer: E) Three small solid black triangles with one point facing up side by side in a row

Question 22

selects option B: the orientation is the same along each row and changes from row to row; the shading of the small shape is the same down each column and changes from column to column; the outline style alternates in a checkerboard pattern, which gives A medium unshaded (white) L-shape and a small unshaded (white) triangle with one point facing up in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: B) A medium unshaded (white) L-shape and a small unshaded (white) triangle with one point facing up in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 23

selects option E: the outline style is the same along each row and changes from row to row; the position of the small shape uses each value once in every row and every column, which gives A medium unshaded (white) circle and a small solid black triangle with one point facing up in the bottom-left (cao) **B1**

Answer: E) A medium unshaded (white) circle and a small solid black triangle with one point facing up in the bottom-left

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Question 24

selects option B: the shading of the inner shape is the same along each row and changes from row to row, which gives A large diagonally hatched circle, with a small unshaded (white) square centred inside it (cao) **B1**

Answer: B) A large diagonally hatched circle, with a small unshaded (white) square centred inside it

Question 25

selects option C: the orientation is the same down each column and changes from column to column; the mirror image is the same down each column and changes from column to column; the number of shapes is the same along each row and changes from row to row, which gives Three small mid-grey flags (turned 180 degrees clockwise) side by side in a row (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: C) Three small mid-grey flags (turned 180 degrees clockwise) side by side in a row (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 26

selects option D: the shape uses each value once in every row and every column, which gives A medium solid black semicircle with its curved side facing up (cao) **B1**

Answer: D) A medium solid black semicircle with its curved side facing up

Question 27

selects option C: the shading uses each value once in every row and every column; the size uses each value once in every row and every column, which gives A medium unshaded (white) star with one point facing up (cao) **B1**

Answer: C) A medium unshaded (white) star with one point facing up

Question 28

selects option B: the position of the small shape uses each value once in every row and every column; the size uses each value once in every row and every column; the mirror image alternates in a checkerboard pattern, which gives A medium mid-grey L-shape and a small solid black star with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: B) A medium mid-grey L-shape and a small solid black star with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 29

selects option E: the size is the same down each column and changes from column to column; the orientation alternates in a checkerboard pattern, which gives A large solid black L-shape (turned 90 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: E) A large solid black L-shape (turned 90 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 30

selects option B: the number of shapes is the same down each column and changes from column to column, which gives Three small unshaded (white) hearts with their points facing down side by side in a row (cao) **B1**

Answer: B) Three small unshaded (white) hearts with their points facing down side by side in a row

Question 31

selects option D: the mirror image alternates in a checkerboard pattern; the orientation is the same down each column and changes from column to column, which gives A medium solid black L-shape (turned 45 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: D) A medium solid black L-shape (turned 45 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 32

selects option D: the number of shapes is the same along each row and changes from row to row; the orientation is the same along each row and changes from row to row, which gives Three small unshaded (white) hearts with their points facing up side by side in a row (cao) **B1**

Answer: D) Three small unshaded (white) hearts with their points facing up side by side in a row

Question 33

selects option A: the position of the small shape is the same down each column and changes from column to column, which gives A large mid-grey triangle with one point facing up and a small solid black triangle with one point facing up in the top-left (cao) **B1**

Answer: A) A large mid-grey triangle with one point facing up and a small solid black triangle with one point facing up in the top-left

Question 34

selects option A: the outline style alternates in a checkerboard pattern; the orientation is the same along each row and changes from row to row, which gives A large unshaded (white) heart with its point facing right (cao) **B1**

Answer: A) A large unshaded (white) heart with its point facing right

Question 35

selects option E: the shape uses each value once in every row and every column; the size uses each value once in every row and every column; the shading is the same down each column and changes from column to column, which gives A small mid-grey heart with its point facing down (cao) **B1**

Answer: E) A small mid-grey heart with its point facing down

Question 36

selects option C: the size is the same along each row and changes from row to row, which gives A small solid black circle (cao) **B1**

Answer: C) A small solid black circle

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Question 37

selects option E: the shape uses each value once in every row and every column; the shading is the same along each row and changes from row to row, which gives A large dotted triangle with one point facing up (cao) **B1**

Answer: E) A large dotted triangle with one point facing up

Question 38

selects option B: the shading of the inner shape uses each value once in every row and every column, which gives A large diagonally hatched square, with a small solid black circle centred inside it (cao) **B1**

Answer: B) A large diagonally hatched square, with a small solid black circle centred inside it

Question 39

selects option D: the orientation uses each value once in every row and every column; the shading of the small shape uses each value once in every row and every column; the shape uses each value once in every row and every column, which gives A large mid-grey hexagon (turned 90 degrees from upright) and a small solid black square in the top-left (cao) **B1**

Answer: D) A large mid-grey hexagon (turned 90 degrees from upright) and a small solid black square in the top-left

Question 40

selects option C: the size alternates in a checkerboard pattern; the shading of the inner shape is the same along each row and changes from row to row, which gives A large mid-grey pentagon with one point facing up, with a small solid black diamond centred inside it (cao) **B1**

Answer: C) A large mid-grey pentagon with one point facing up, with a small solid black diamond centred inside it

Question 41

selects option A: the shape is the same down each column and changes from column to column, which gives A large mid-grey rectangle (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: A) A large mid-grey rectangle (upright, the rectangle has its long sides horizontal)

Question 42

selects option B: the shading uses each value once in every row and every column; the shape uses each value once in every row and every column, which gives A medium unshaded (white) arrow pointing up (cao) **B1**

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

Question 43

selects option B: the orientation uses each value once in every row and every column; the mirror image is the same down each column and changes from column to column; the number of shapes is the same down each column and changes from column to column, which gives Three small mid-grey right-angled triangles (turned 270 degrees clockwise) side by side in a row (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: B) Three small mid-grey right-angled triangles (turned 270 degrees clockwise) 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 44

selects option C: the mirror image alternates in a checkerboard pattern; the orientation is the same along each row and changes from row to row, which gives A large unshaded (white) L-shape (turned 270 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: C) A large unshaded (white) L-shape (turned 270 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 45

selects option A: the shape is the same along each row and changes from row to row, which gives A large mid-grey pentagon with one point facing up (cao) **B1**

Answer: A) A large mid-grey pentagon with one point facing up

Question 46

selects option B: the position of the small shape is the same along each row and changes from row to row, which gives A medium mid-grey semicircle with its curved side facing up and a small solid black square in the bottom-left (cao) **B1**

Answer: B) A medium mid-grey semicircle with its curved side facing up and a small solid black square in the bottom-left

Question 47

selects option A: the number of shapes is the same along each row and changes from row to row; the shape is the same down each column and changes from column to column, which gives Two small solid black hearts with their points facing down side by side in a row (cao) **B1**

Answer: A) Two small solid black hearts with their points facing down side by side in a row

Question 48

selects option D: the number of shapes is the same down each column and changes from column to column; the orientation uses each value once in every row and every column, which gives Three small solid black semicircles with their curved sides facing right side by side in a row (cao) **B1**

Answer: D) Three small solid black semicircles with their curved sides facing right side by side in a row

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Question 49

selects option B: the mirror image alternates in a checkerboard pattern; the size uses each value once in every row and every column; the orientation uses each value once in every row and every column, which gives A large solid black right-angled triangle (turned 90 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: B) A large solid black right-angled triangle (turned 90 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 50

selects option B: the position of the small shape uses each value once in every row and every column; the shading of the inner shape uses each value once in every row and every column, which gives A large diagonally hatched circle, with a small solid black triangle with one point facing up centred inside it and a small solid black star with one point facing up in the top-left (cao) **B1**

Answer: B) A large diagonally hatched circle, with a small solid black triangle with one point facing up centred inside it and a small solid black star with one point facing up in the top-left

Question 51

selects option A: the shape uses each value once in every row and every column, which gives A medium mid-grey square (cao) **B1**

Answer: A) A medium mid-grey square

Question 52

selects option E: the size is the same down each column and changes from column to column; the shape uses each value once in every row and every column, which gives A medium unshaded (white) hexagon (upright, the hexagon has its flat top and bottom) (cao) **B1**

Answer: E) A medium unshaded (white) hexagon (upright, the hexagon has its flat top and bottom)

Question 53

selects option C: the size uses each value once in every row and every column, which gives A small mid-grey pentagon with one point facing up (cao) **B1**

Answer: C) A small mid-grey pentagon with one point facing up

Question 54

selects option B: the orientation is the same along each row and changes from row to row; the number of shapes changes by the same step along rows and down columns, which gives Three small mid-grey hearts with their points facing down side by side in a row (cao) **B1**

Answer: B) Three small mid-grey hearts with their points facing down side by side in a row

Question 55

selects option A: the size uses each value once in every row and every column, which gives A small unshaded (white) square (cao) **B1**

Answer: A) A small unshaded (white) square

Question 56

selects option B: the shape uses each value once in every row and every column; the number of shapes is the same along each row and changes from row to row, which gives Three small solid black rectangles side by side in a row (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: B) Three small solid black rectangles side by side in a row (upright, the rectangle has its long sides horizontal)

Question 57

selects option A: the shading of the inner shape is the same along each row and changes from row to row; the position of the small shape is the same down each column and changes from column to column; the shading is the same along each row and changes from row to row, which gives A large unshaded (white) circle, with a small mid-grey triangle with one point facing up centred inside it and a small solid black square in the bottom-left (cao) **B1**

Answer: A) A large unshaded (white) circle, with a small mid-grey triangle with one point facing up centred inside it and a small solid black square in the bottom-left

Question 58

selects option E: the position of the small shape is the same down each column and changes from column to column; the shape alternates in a checkerboard pattern, which gives A large unshaded (white) pentagon with one point facing up and a small solid black square in the bottom-right (cao) **B1**

Answer: E) A large unshaded (white) pentagon with one point facing up and a small solid black square in the bottom-right

Question 59

Selects B: applies the row rule (dot count 0,1,2 across columns) and the column rule (size small, medium, large down rows) together. **B1**

Answer: B

Question 60

selects option A: the outline style is the same along each row and changes from row to row; the mirror image alternates in a checkerboard pattern, which gives A large unshaded (white) parallelogram (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: A) A large unshaded (white) parallelogram (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 61

selects option E: the shading uses each value once in every row and every column; the size is the same down each column and changes from column to column; the position of the small shape uses each value once in every row and every column, which gives A small unshaded (white) hexagon and a small solid black square in the top-left (upright, the hexagon has its flat top and bottom) (cao) **B1**

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

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Question 62

selects option A: the orientation is the same along each row and changes from row to row; the size uses each value once in every row and every column, which gives A medium unshaded (white) arrow pointing down (cao) **B1**

Answer: A) A medium unshaded (white) arrow pointing down

Question 63

selects option E: the position of the small shape is the same along each row and changes from row to row, which gives A medium solid black triangle with one point facing up and a small solid black triangle with one point facing up in the top-right (cao) **B1**

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

Question 64

selects option A: the mirror image is the same down each column and changes from column to column; the position of the small shape uses each value once in every row and every column; the size uses each value once in every row and every column, which gives A medium mid-grey L-shape and a small solid black triangle with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: A) A medium mid-grey L-shape and a small solid black triangle with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 65

selects option D: the number of shapes is the same along each row and changes from row to row; the shading uses each value once in every row and every column, which gives Three small unshaded (white) squares side by side in a row (cao) **B1**

Answer: D) Three small unshaded (white) squares side by side in a row

Question 66

selects option C: the position of the small shape is the same along each row and changes from row to row, which gives A medium mid-grey triangle with one point facing up and a small solid black square in the bottom-left (cao) **B1**

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

Question 67

selects option B: the shading uses each value once in every row and every column; the shading of the inner shape uses each value once in every row and every column; the position of the small shape is the same down each column and changes from column to column, which gives A medium diagonally hatched circle, with a small unshaded (white) square centred inside it and a small solid black star with one point facing up in the bottom-left (cao) **B1**

Answer: B) A medium diagonally hatched circle, with a small unshaded (white) square centred inside it and a small solid black star with one point facing up in the bottom-left

Question 68

selects option E: the shape uses each value once in every row and every column; the shading uses each value once in every row and every column, which gives A large diagonally hatched rectangle (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: E) A large diagonally hatched rectangle (upright, the rectangle has its long sides horizontal)

Question 69

selects option C: the size uses each value once in every row and every column, which gives A large solid black rectangle (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: C) A large solid black rectangle (upright, the rectangle has its long sides horizontal)

Question 70

selects option E: the shading of the small shape is the same down each column and changes from column to column; the shading of the inner shape is the same along each row and changes from row to row, which gives A medium diagonally hatched circle, with a small mid-grey diamond centred inside it and a small solid black triangle with one point facing up in the top-left (cao) **B1**

Answer: E) A medium diagonally hatched circle, with a small mid-grey diamond centred inside it and a small solid black triangle with one point facing up in the top-left

Question 71

selects option B: the shape is the same along each row and changes from row to row; the size is the same along each row and changes from row to row; the position of the small shape is the same along each row and changes from row to row, which gives A small mid-grey arrow pointing up and a small solid black triangle with one point facing up in the bottom-right (cao) **B1**

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

Question 72

selects option A: the shading of the inner shape is the same along each row and changes from row to row, which gives A large diagonally hatched circle, with a small mid-grey square centred inside it (cao) **B1**

Answer: A) A large diagonally hatched circle, with a small mid-grey square centred inside it

Question 73

selects option D: the shading of the inner shape uses each value once in every row and every column, which gives A medium diagonally hatched square, with a small solid black diamond centred inside it (cao) **B1**

Answer: D) A medium diagonally hatched square, with a small solid black diamond centred inside it

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Question 74

selects option D: the shape is the same along each row and changes from row to row; the number of shapes is the same along each row and changes from row to row, which gives Three small mid-grey crosses side by side in a row (cao) **B1**

Answer: D) Three small mid-grey crosses side by side in a row

Question 75

selects option B: the number of shapes is the same down each column and changes from column to column; the shading uses each value once in every row and every column; the shape uses each value once in every row and every column, which gives Three small unshaded (white) hexagons side by side in a row (upright, the hexagon has its flat top and bottom) (cao) **B1**

Answer: B) Three small unshaded (white) hexagons side by side in a row (upright, the hexagon has its flat top and bottom)

Question 76

selects option B: the number of shapes is the same down each column and changes from column to column; the shape uses each value once in every row and every column, which gives Three small unshaded (white) arrows pointing up side by side in a row (cao) **B1**

Answer: B) Three small unshaded (white) arrows pointing up side by side in a row

Question 77

selects option A: the position of the small shape is the same down each column and changes from column to column, which gives A large solid black diamond and a small solid black square in the bottom-right (cao) **B1**

Answer: A) A large solid black diamond and a small solid black square in the bottom-right

Question 78

selects option B: the position of the small shape is the same down each column and changes from column to column; the orientation is the same along each row and changes from row to row, which gives A large solid black L-shape (turned 180 degrees clockwise) and a small solid black triangle with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: B) A large solid black L-shape (turned 180 degrees clockwise) and a small solid black triangle with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 79

selects option C: the shading is the same down each column and changes from column to column; the shape is the same down each column and changes from column to column, which gives A medium mid-grey square (cao) **B1**

Answer: C) A medium mid-grey square

Question 80

selects option D: the shape uses each value once in every row and every column, which gives A large solid black arrow pointing up (cao) **B1**

Answer: D) A large solid black arrow pointing up

Question 81

selects option A: the size uses each value once in every row and every column; the shape uses each value once in every row and every column; the shading of the small shape is the same along each row and changes from row to row, which gives A medium mid-grey heart with its point facing down and a small mid-grey star with one point facing up in the top-left (cao) **B1**

Answer: A) A medium mid-grey heart with its point facing down and a small mid-grey star with one point facing up in the top-left

Question 82

selects option A: the mirror image is the same along each row and changes from row to row; the size uses each value once in every row and every column, which gives A small mid-grey flag (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: A) A small mid-grey flag (upright, the flag has its pole on the left, pennant pointing right from the top)

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