4.4 Analogies: 1-hour Pack

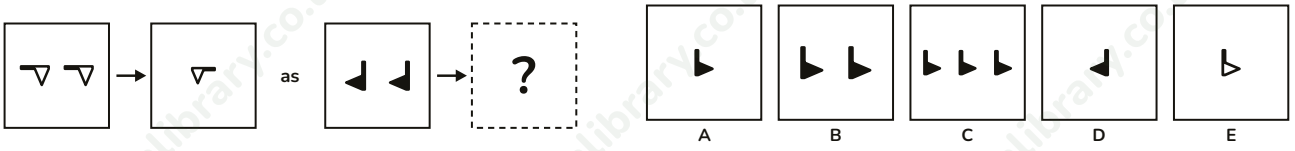
GL ASSESSMENT GL-EP.N4 · Calculators not allowed · about 60 minutes

Total Marks

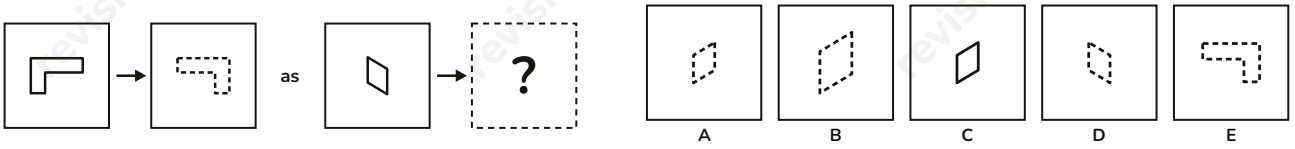
Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

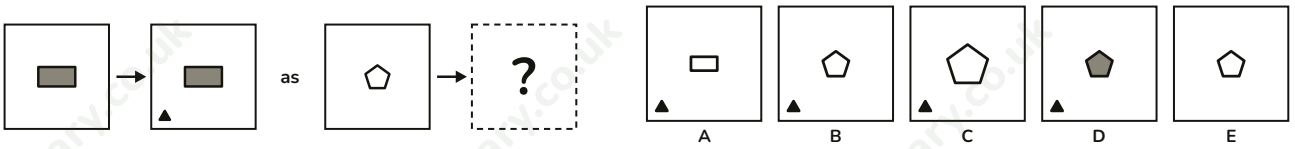
1 Figure 1 is to Figure 2 as Figure 3 is to which option?



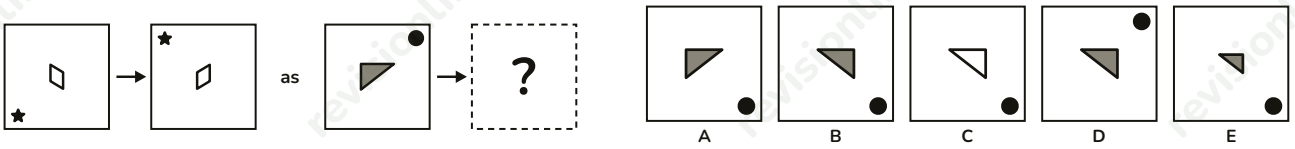
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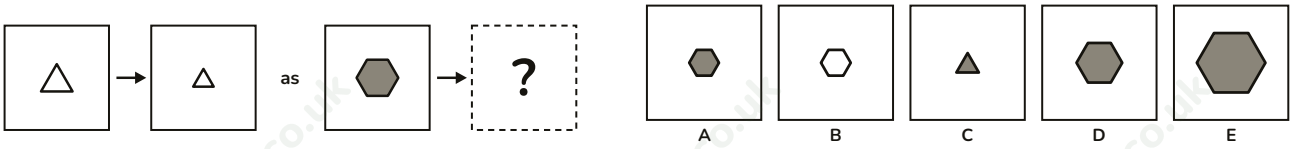
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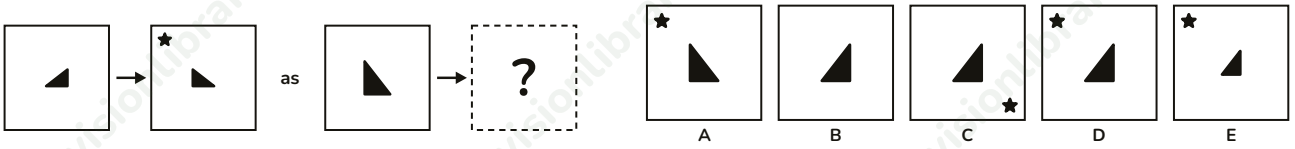
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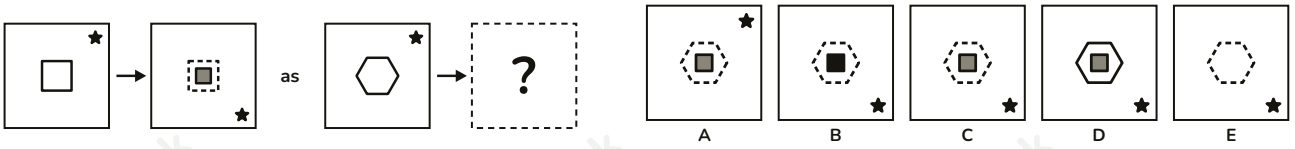
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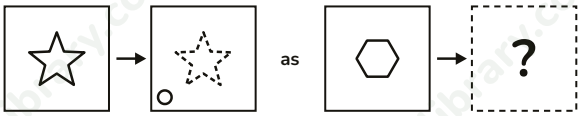


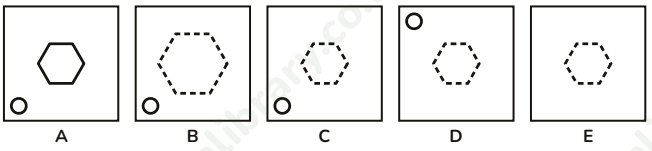
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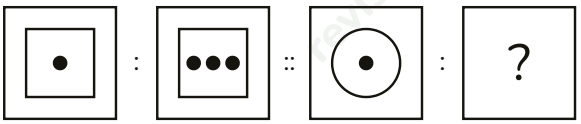
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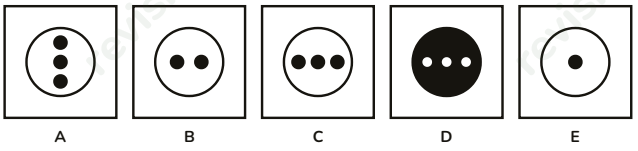
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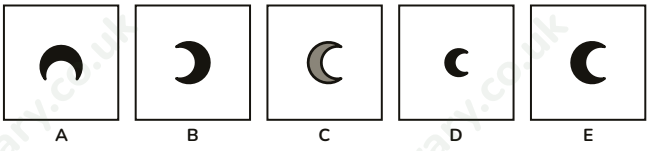
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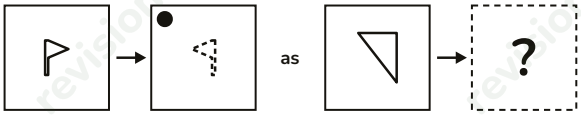


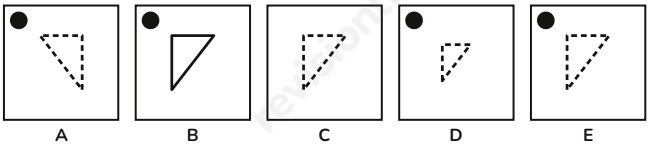
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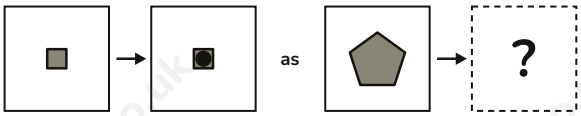


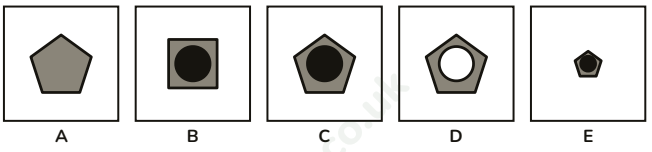
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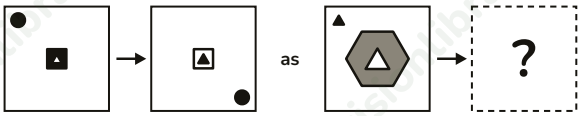


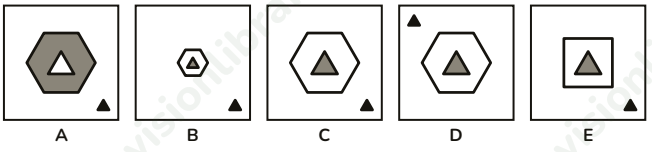
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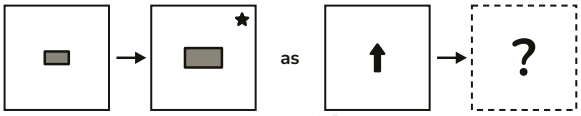


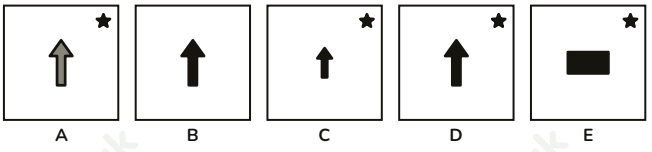
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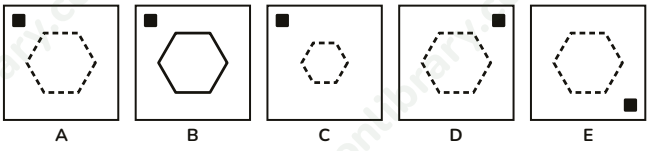
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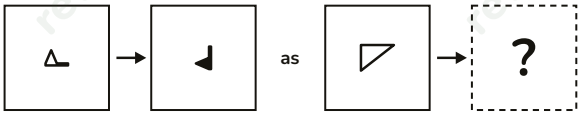


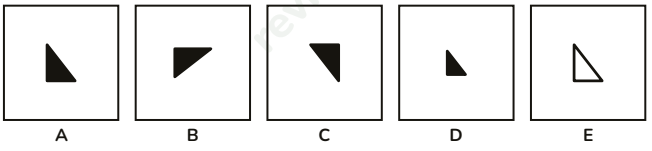
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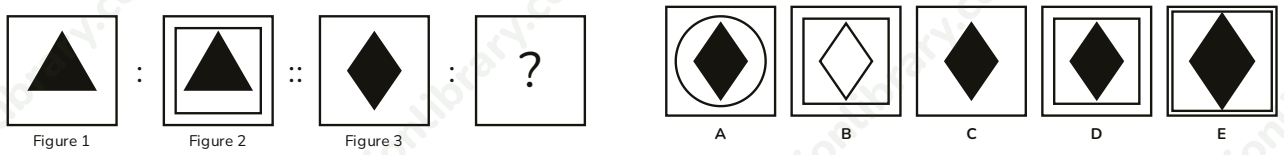
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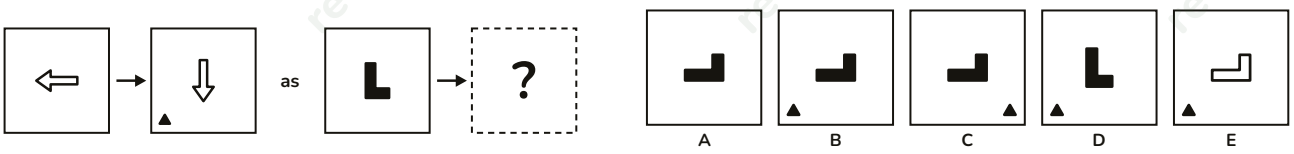


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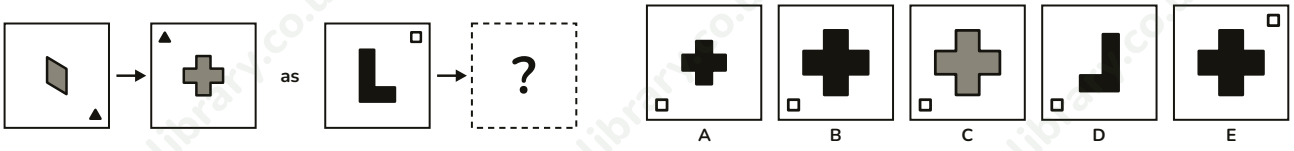
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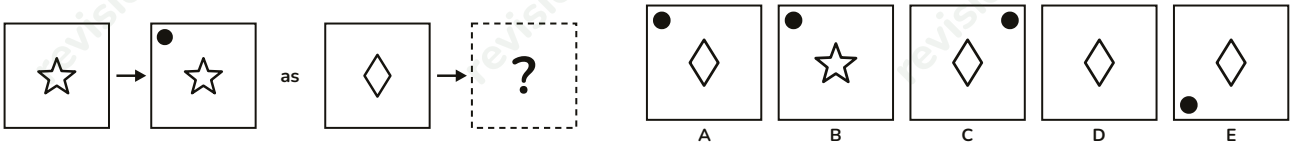
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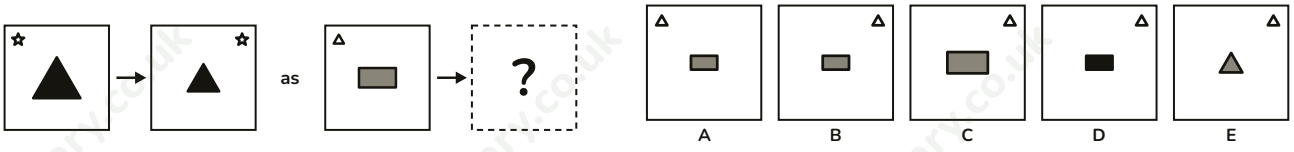
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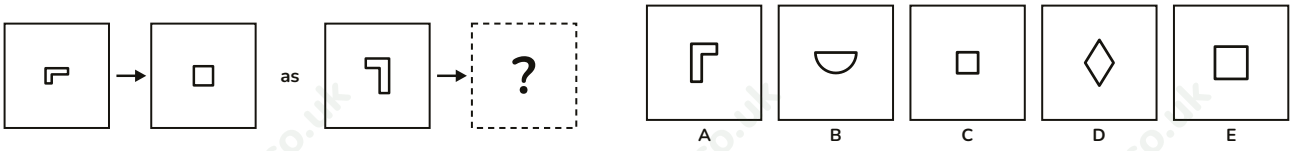
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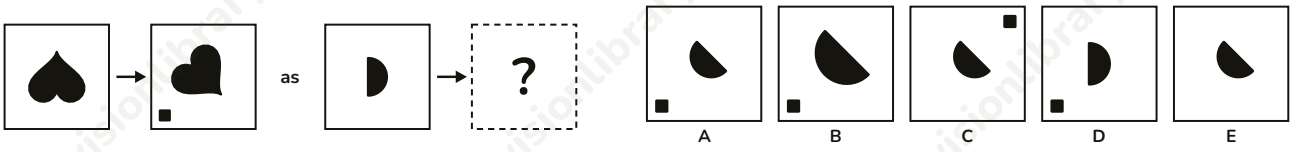
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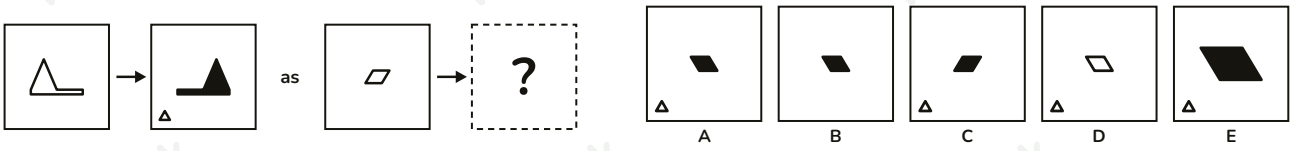
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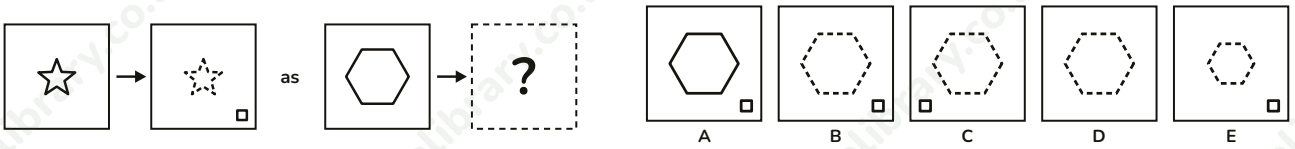


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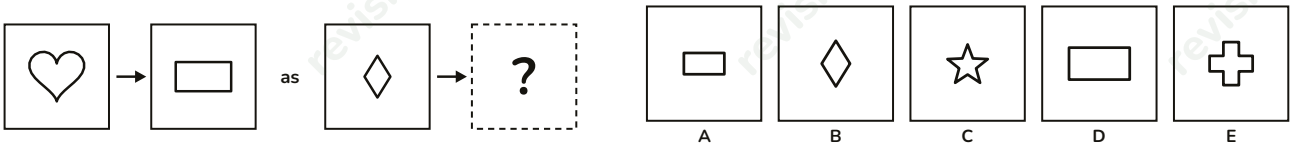


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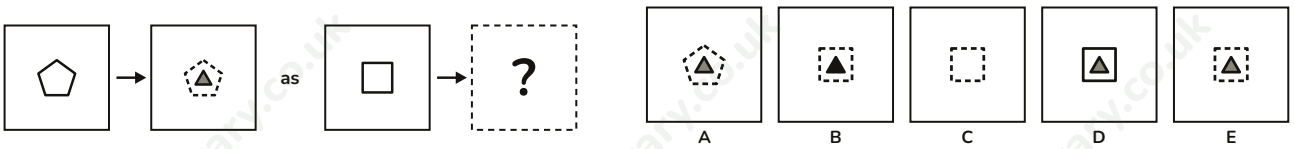
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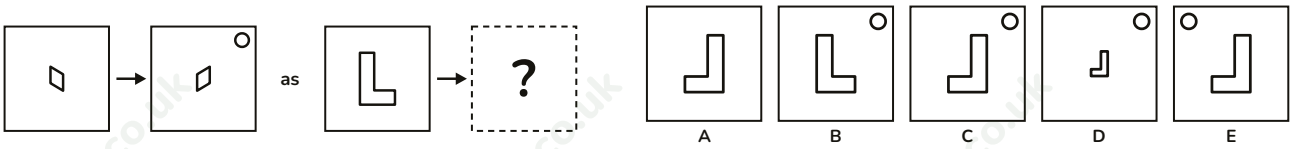
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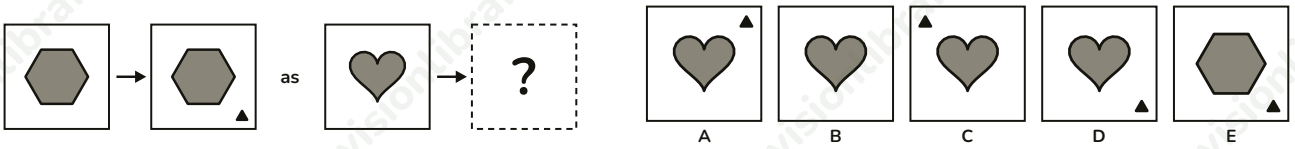
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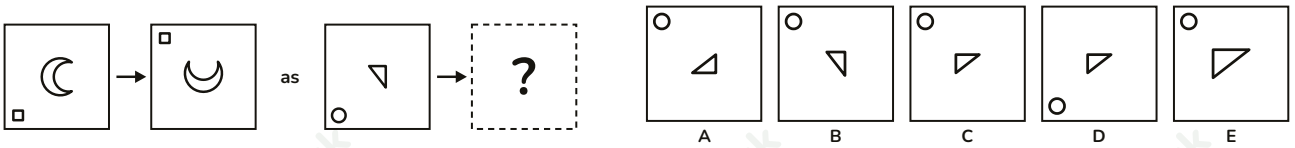
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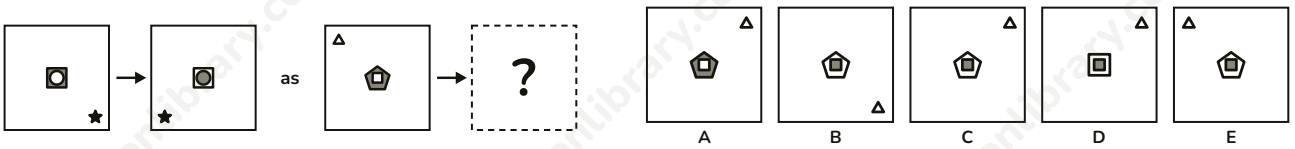
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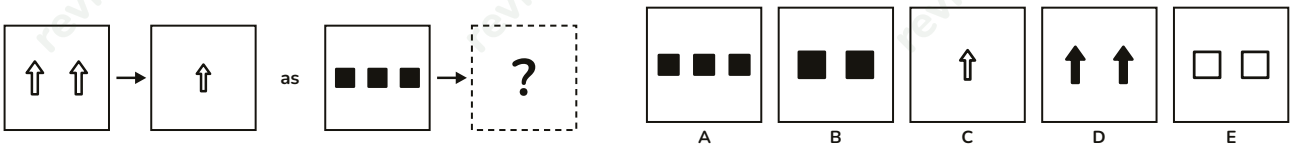
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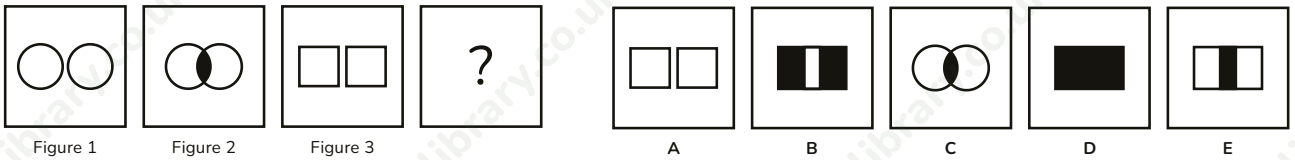
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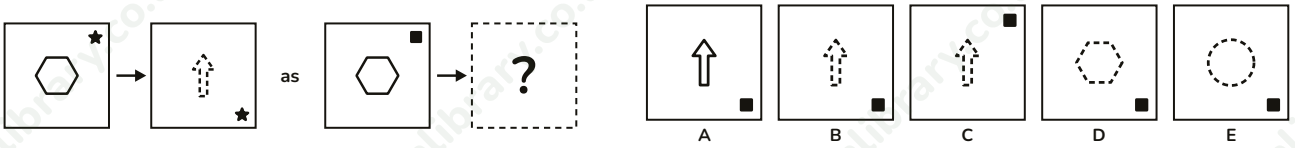


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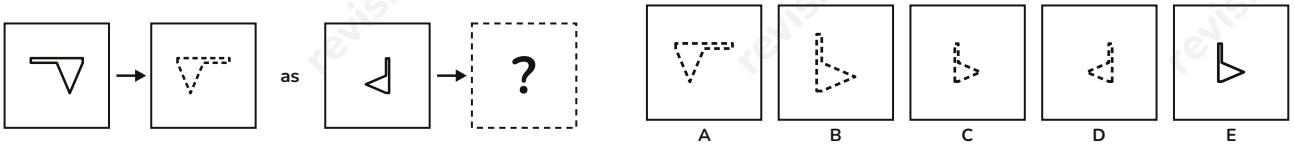


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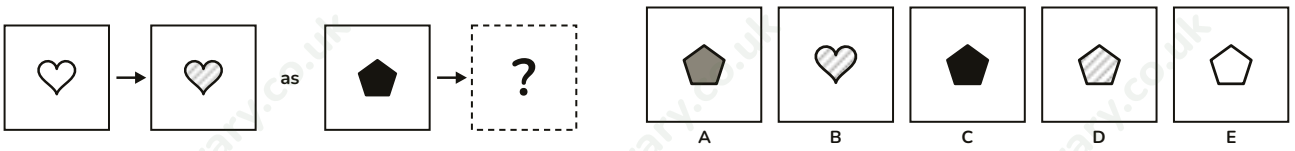
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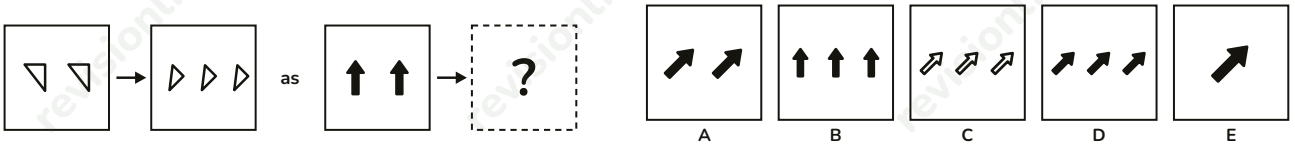
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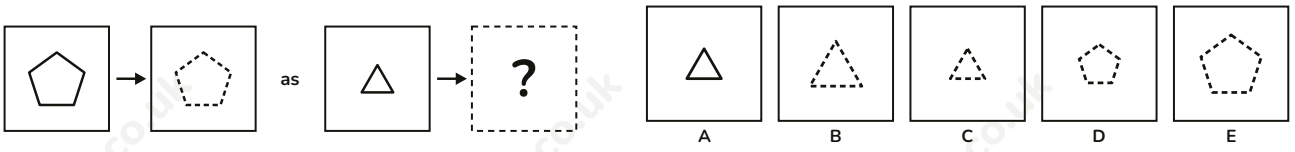
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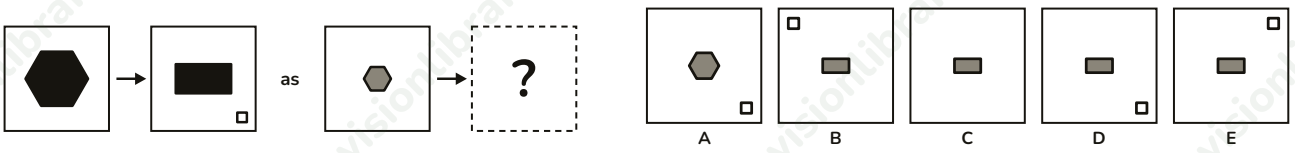
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Mark scheme · 4.4 Analogies: 1-hour Pack

Question 1

selects option A: from Figure 1 to Figure 2, one shape is taken away; the shape is flipped to its mirror image; the same change to Figure 3 gives A small solid black flag (mirrored left to right, then turned 180 degrees clockwise) (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: A) A small solid black flag (mirrored left to right, then turned 180 degrees clockwise) (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 2

selects option A: from Figure 1 to Figure 2, the outline becomes dashed; the shape is flipped to its mirror image; the same change to Figure 3 gives A medium unshaded (white) parallelogram (mirrored left to right, then turned 270 degrees clockwise), dashed outline (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: A) A medium unshaded (white) parallelogram (mirrored left to right, then turned 270 degrees clockwise), dashed outline (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 3

selects option B: from Figure 1 to Figure 2, a small triangle appears in the bottom-left corner; the same change to Figure 3 gives A small unshaded (white) pentagon with one point facing up and a small solid black triangle with one point facing up in the bottom-left (cao) **B1**

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

Question 4

selects option B: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the small corner shape moves one corner clockwise; the same change to Figure 3 gives A medium mid-grey right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) and a small solid black circle in the bottom-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: B) A medium mid-grey right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) and a small solid black circle in the bottom-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 5

selects option A: from Figure 1 to Figure 2, the shape gets one size smaller; the same change to Figure 3 gives A small mid-grey hexagon (upright, the hexagon has its flat top and bottom) (cao) **B1**

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

Question 6

selects option D: from Figure 1 to Figure 2, a small star appears in the top-left corner; the shape is flipped to its mirror image; the same change to Figure 3 gives A medium solid black right-angled triangle (mirrored left to right) and a small solid black star with one point facing up in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: D) A medium solid black right-angled triangle (mirrored left to right) and a small solid black star with one point facing up in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 7

selects option C: from Figure 1 to Figure 2, the outline becomes dashed; the small corner shape moves one corner clockwise; a smaller square appears inside; the same change to Figure 3 gives A medium unshaded (white) hexagon, dashed outline, with a small mid-grey square centred inside it and a small solid black star with one point facing up in the bottom-right (upright, the hexagon has its flat top and bottom) (cao) **B1**

Answer: C) A medium unshaded (white) hexagon, dashed outline, with a small mid-grey square centred inside it and a small solid black star with one point facing up in the bottom-right (upright, the hexagon has its flat top and bottom)

Question 8

selects option C: from Figure 1 to Figure 2, a small circle appears in the bottom-left corner; the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) hexagon, dashed outline and a small unshaded (white) circle in the bottom-left (upright, the hexagon has its flat top and bottom) (cao) **B1**

Answer: C) A medium unshaded (white) hexagon, dashed outline and a small unshaded (white) circle in the bottom-left (upright, the hexagon has its flat top and bottom)

Question 9

Correct option identified (C oe) - dot count increases from 1 to 3, arranged in a horizontal row, outer shape unshaded and unchanged in size **B1**

Answer: C

Question 10

selects option E: from Figure 1 to Figure 2, the shape is turned 180 degrees clockwise; the same change to Figure 3 gives A medium solid black crescent with its tips facing right (cao) **B1**

Answer: E) A medium solid black crescent with its tips facing right

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Question 11

selects option E: from Figure 1 to Figure 2, a small circle appears in the top-left corner; the shape is flipped to its mirror image; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) right-angled triangle (mirrored left to right, then turned 180 degrees clockwise), dashed outline and a small solid black circle in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: E) A large unshaded (white) right-angled triangle (mirrored left to right, then turned 180 degrees clockwise), dashed outline and a small solid black circle in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 12

selects option C: from Figure 1 to Figure 2, a smaller circle appears inside; the same change to Figure 3 gives A large mid-grey pentagon with one point facing up, with a small solid black circle centred inside it (cao) **B1**

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

Question 13

selects option C: from Figure 1 to Figure 2, the shading of the outer and inner shapes swap; the small corner shape moves to the opposite corner; the same change to Figure 3 gives A large unshaded (white) hexagon, with a small mid-grey triangle with one point facing up centred inside it and a small solid black triangle with one point facing up in the bottom-right (upright, the hexagon has its flat top and bottom) (cao) **B1**

Answer: C) A large unshaded (white) hexagon, with a small mid-grey triangle with one point facing up centred inside it and a small solid black triangle with one point facing up in the bottom-right (upright, the hexagon has its flat top and bottom)

Question 14

selects option D: from Figure 1 to Figure 2, a small star appears in the top-right corner; the shape gets one size larger; the same change to Figure 3 gives A medium solid black arrow pointing up and a small solid black star with one point facing up in the top-right (cao) **B1**

Answer: D) A medium solid black arrow pointing up and a small solid black star with one point facing up in the top-right

Question 15

selects option A: from Figure 1 to Figure 2, the small corner shape moves to the opposite corner; the shape gets one size larger; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) hexagon, dashed outline and a small solid black square in the top-left (upright, the hexagon has its flat top and bottom) (cao) **B1**

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

Question 16

selects option A: from Figure 1 to Figure 2, the shape is turned 270 degrees clockwise; the shape becomes solid black; the same change to Figure 3 gives A medium solid black right-angled triangle (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: A) A medium solid black right-angled triangle (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 17

Correct option identified (D oe) - concentric square frame added, shading and size of the inner diamond unchanged **B1**

Answer: D

Question 18

selects option B: from Figure 1 to Figure 2, a small triangle appears in the bottom-left corner; the shape is turned 270 degrees clockwise; the same change to Figure 3 gives A medium solid black L-shape (turned 270 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 medium solid black L-shape (turned 270 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 19

selects option B: from Figure 1 to Figure 2, the small corner shape moves to the opposite corner; the shape becomes a cross; the same change to Figure 3 gives A large solid black cross and a small unshaded (white) square in the bottom-left (cao) **B1**

Answer: B) A large solid black cross and a small unshaded (white) square in the bottom-left

Question 20

selects option A: from Figure 1 to Figure 2, a small circle appears in the top-left corner; the same change to Figure 3 gives A medium unshaded (white) diamond and a small solid black circle in the top-left (cao) **B1**

Answer: A) A medium unshaded (white) diamond and a small solid black circle in the top-left

Question 21

selects option B: from Figure 1 to Figure 2, the small corner shape moves one corner clockwise; the shape gets one size smaller; the same change to Figure 3 gives A small mid-grey rectangle and a small unshaded (white) triangle with one point facing up in the top-right (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: B) A small mid-grey rectangle and a small unshaded (white) triangle with one point facing up in the top-right (upright, the rectangle has its long sides horizontal)

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Question 22

selects option E: from Figure 1 to Figure 2, the shape gets one size larger; a smaller triangle appears inside; the shape becomes mid-grey; the same change to Figure 3 gives A large mid-grey pentagon with one point facing up, with a small unshaded (white) triangle with one point facing up centred inside it (cao) **B1**

Answer: E) A large mid-grey pentagon with one point facing up, with a small unshaded (white) triangle with one point facing up centred inside it

Question 23

selects option E: from Figure 1 to Figure 2, the shape becomes a square; the same change to Figure 3 gives A medium unshaded (white) square (cao) **B1**

Answer: E) A medium unshaded (white) square

Question 24

selects option A: from Figure 1 to Figure 2, the shape is turned 135 degrees clockwise; a small square appears in the bottom-left corner; the same change to Figure 3 gives A medium solid black semicircle with its curved side facing down-left and a small solid black square in the bottom-left (cao) **B1**

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

Question 25

selects option A: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the shape becomes solid black; a small triangle appears in the bottom-left corner; the same change to Figure 3 gives A small solid black parallelogram (mirrored left to right, then turned 180 degrees clockwise) and a small unshaded (white) triangle with one point facing up in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: A) A small solid black parallelogram (mirrored left to right, then turned 180 degrees clockwise) and a small unshaded (white) triangle with one point facing up in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 26

selects option B: from Figure 1 to Figure 2, the outline becomes dashed; a small square appears in the bottom-right corner; the same change to Figure 3 gives A large unshaded (white) hexagon, dashed outline and a small unshaded (white) square in the bottom-right (upright, the hexagon has its flat top and bottom) (cao) **B1**

Answer: B) A large unshaded (white) hexagon, dashed outline and a small unshaded (white) square in the bottom-right (upright, the hexagon has its flat top and bottom)

Question 27

selects option A: from Figure 1 to Figure 2, the shape becomes a rectangle; the same change to Figure 3 gives A medium unshaded (white) rectangle (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: A) A medium unshaded (white) rectangle (upright, the rectangle has its long sides horizontal)

Question 28

selects option E: from Figure 1 to Figure 2, a smaller triangle appears inside; the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) square, dashed outline, with a small mid-grey triangle with one point facing up centred inside it (cao) **B1**

Answer: E) A medium unshaded (white) square, dashed outline, with a small mid-grey triangle with one point facing up centred inside it

Question 29

selects option D: from Figure 1 to Figure 2, one shape is taken away; the shape gets one size larger; the shape is turned 90 degrees clockwise; the shape becomes dotted; the same change to Figure 3 gives A medium dotted crescent with its tips facing left (cao) **B1**

Answer: D) A medium dotted crescent with its tips facing left

Question 30

selects option C: from Figure 1 to Figure 2, a small circle appears in the top-right corner; the shape is flipped to its mirror image; the same change to Figure 3 gives A large unshaded (white) L-shape (mirrored left to right) and a small unshaded (white) circle in the top-right (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 (mirrored left to right) and a small unshaded (white) circle in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 31

selects option D: from Figure 1 to Figure 2, a small triangle appears in the bottom-right corner; the same change to Figure 3 gives A large mid-grey heart with its point facing down and a small solid black triangle with one point facing up in the bottom-right (cao) **B1**

Answer: D) A large mid-grey heart with its point facing down and a small solid black triangle with one point facing up in the bottom-right

Question 32

selects option C: from Figure 1 to Figure 2, the small corner shape moves one corner clockwise; the shape is turned 270 degrees clockwise; the same change to Figure 3 gives A small unshaded (white) right-angled triangle (turned 90 degrees clockwise) and a small unshaded (white) circle in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: C) A small unshaded (white) right-angled triangle (turned 90 degrees clockwise) and a small unshaded (white) circle in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

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Question 33

selects option C: from Figure 1 to Figure 2, the small corner shape moves one corner clockwise; the shading of the outer and inner shapes swap; the same change to Figure 3 gives A small unshaded (white) pentagon with one point facing up, with a small mid-grey square centred inside it and a small unshaded (white) triangle with one point facing up in the top-right (cao) **B1**

Answer: C) A small unshaded (white) pentagon with one point facing up, with a small mid-grey square centred inside it and a small unshaded (white) triangle with one point facing up in the top-right

Question 34

selects option B: from Figure 1 to Figure 2, one shape is taken away; the same change to Figure 3 gives Two small solid black squares side by side in a row (cao) **B1**

Answer: B) Two small solid black squares side by side in a row

Question 35

Correct option identified (E oe) - squares brought into overlap, overlap region shaded solid black, rest unshaded **B1**

Answer: E

Question 36

selects option B: from Figure 1 to Figure 2, the shape becomes an arrow; the outline becomes dashed; the small corner shape moves one corner clockwise; the same change to Figure 3 gives A medium unshaded (white) arrow pointing up, dashed outline and a small solid black square in the bottom-right (cao) **B1**

Answer: B) A medium unshaded (white) arrow pointing up, dashed outline and a small solid black square in the bottom-right

Question 37

selects option C: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) flag (mirrored left to right, then turned 180 degrees clockwise), dashed outline (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: C) A medium unshaded (white) flag (mirrored left to right, then turned 180 degrees clockwise), dashed outline (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 38

selects option D: from Figure 1 to Figure 2, the shape becomes diagonally hatched; the same change to Figure 3 gives A medium diagonally hatched pentagon with one point facing up (cao) **B1**

Answer: D) A medium diagonally hatched pentagon with one point facing up

Question 39

selects option D: from Figure 1 to Figure 2, one more shape is added; the shape is turned 45 degrees clockwise; the same change to Figure 3 gives Three small solid black arrows pointing up-right side by side in a row (cao) **B1**

Answer: D) Three small solid black arrows pointing up-right side by side in a row

Question 40

selects option C: from Figure 1 to Figure 2, the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) triangle with one point facing up, dashed outline (cao) **B1**

Answer: C) A medium unshaded (white) triangle with one point facing up, dashed outline

Question 41

selects option D: from Figure 1 to Figure 2, the shape becomes a rectangle; a small square appears in the bottom-right corner; the same change to Figure 3 gives A small mid-grey rectangle and a small unshaded (white) square in the bottom-right (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: D) A small mid-grey rectangle and a small unshaded (white) square in the bottom-right (upright, the rectangle has its long sides horizontal)

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