4.4 Analogies: 2-hour Pack

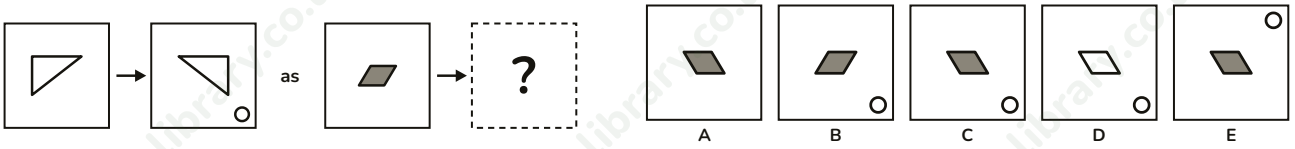
GL ASSESSMENT GL-EP.N4 · Calculators not allowed · about 120 minutes

Total Marks

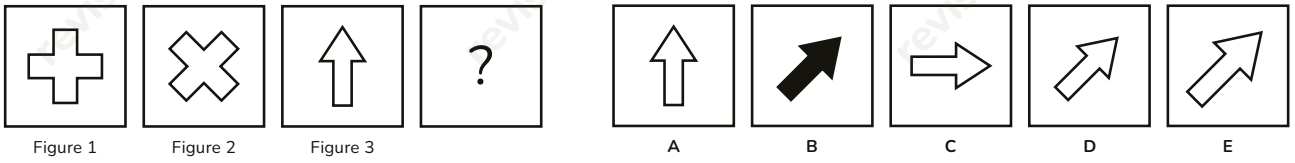
Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

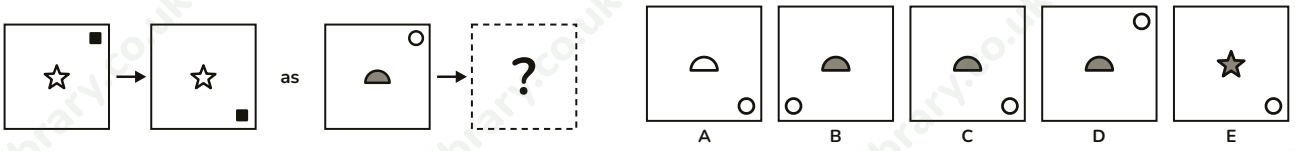
1 Figure 1 is to Figure 2 as Figure 3 is to which option?



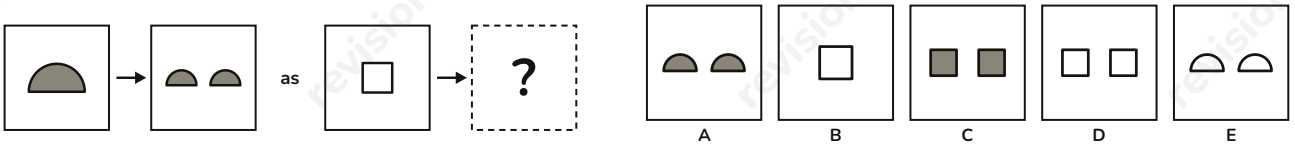
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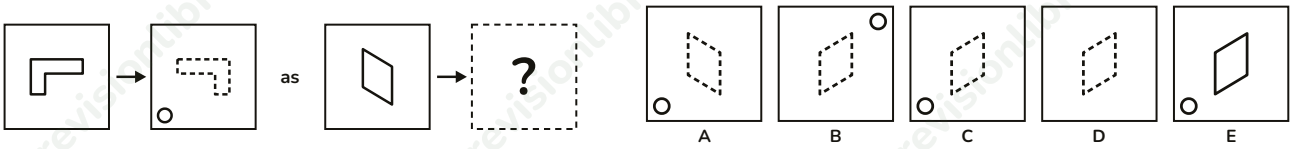
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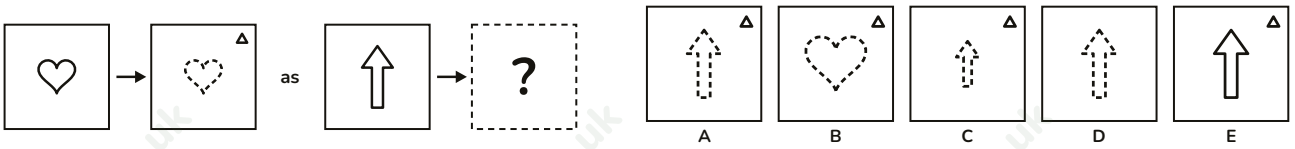
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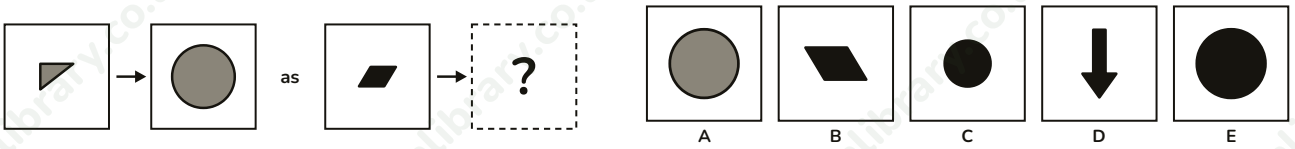


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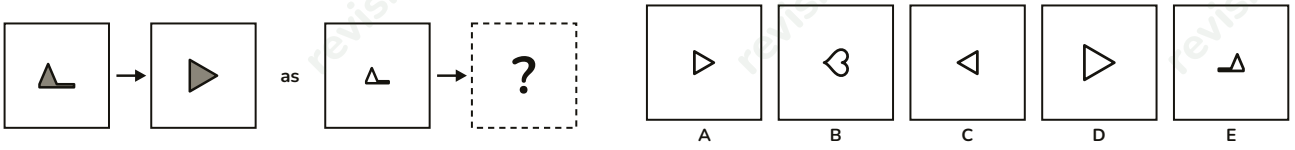


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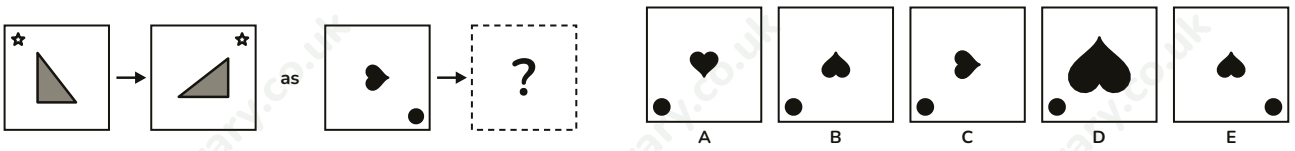
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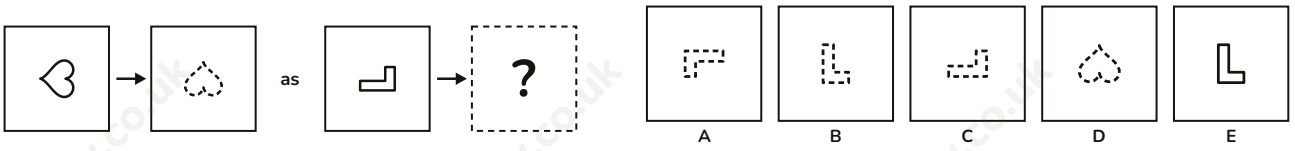
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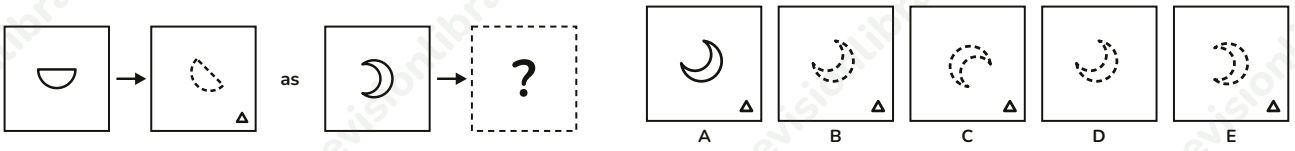
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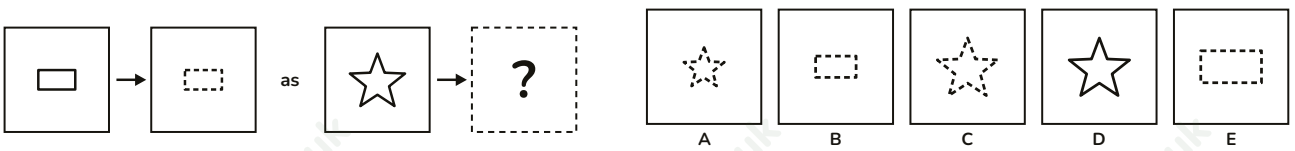
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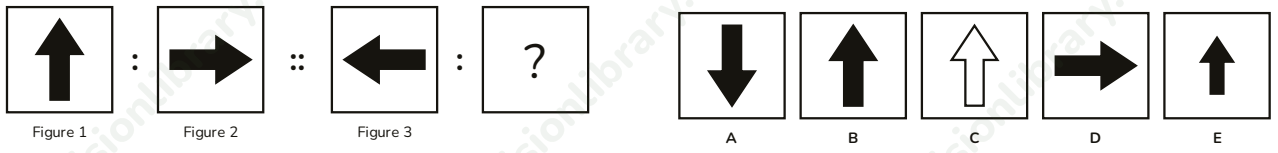
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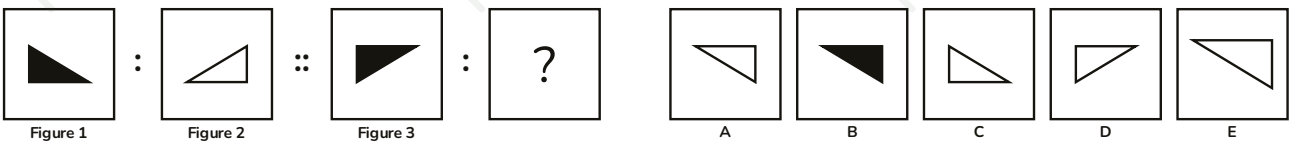
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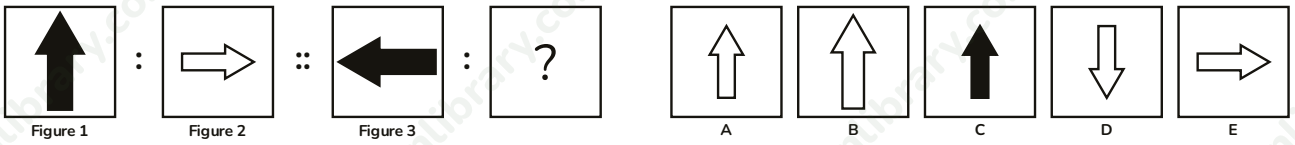


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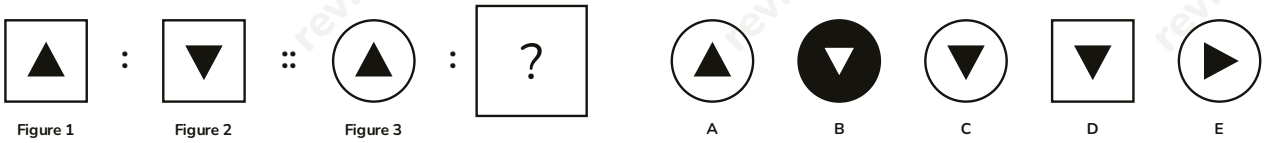


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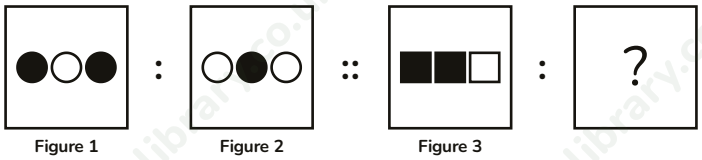
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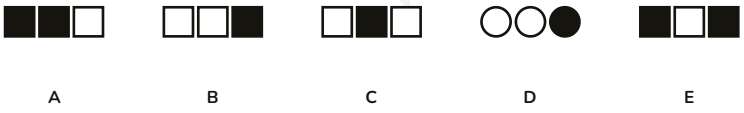


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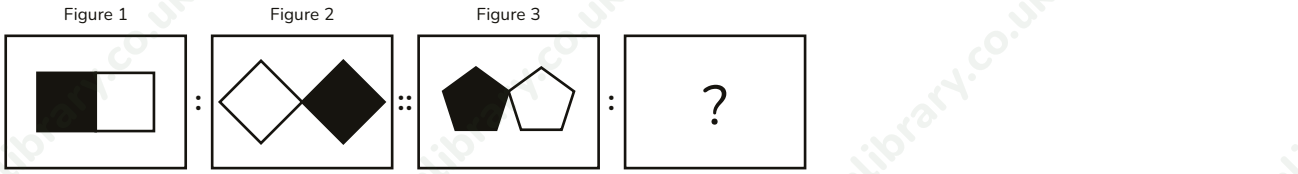


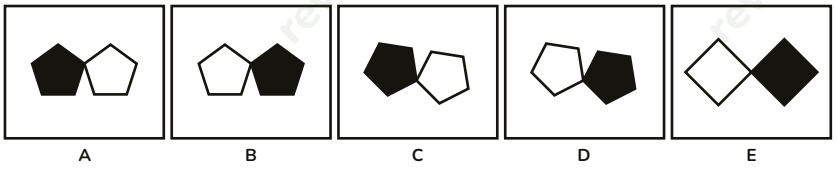
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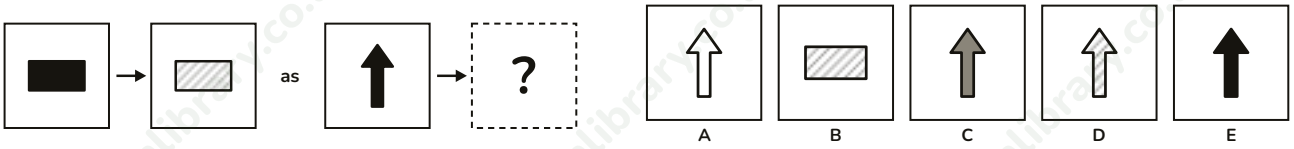


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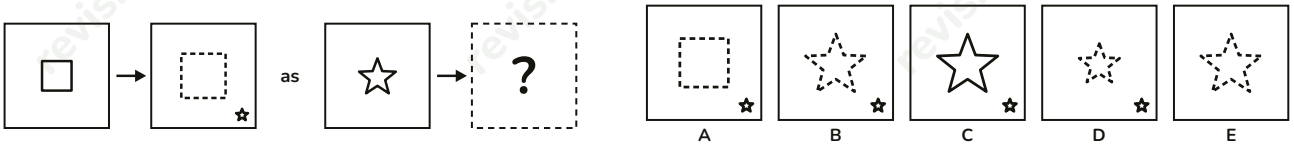




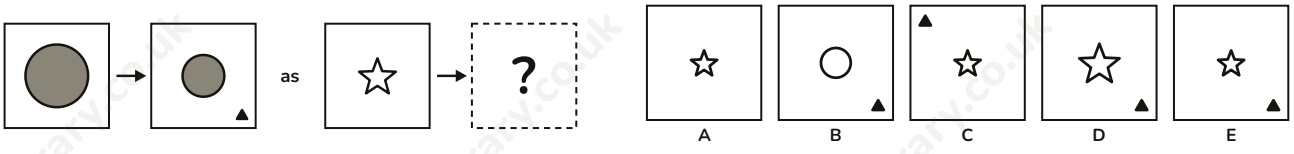
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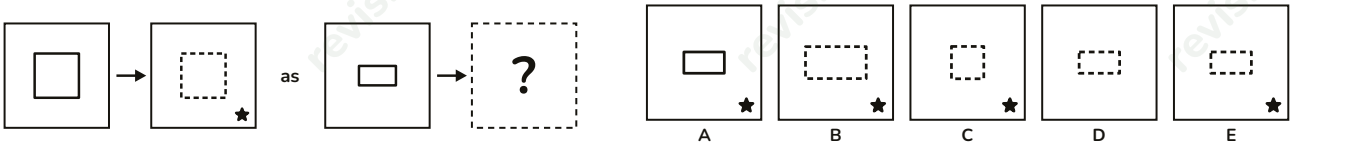


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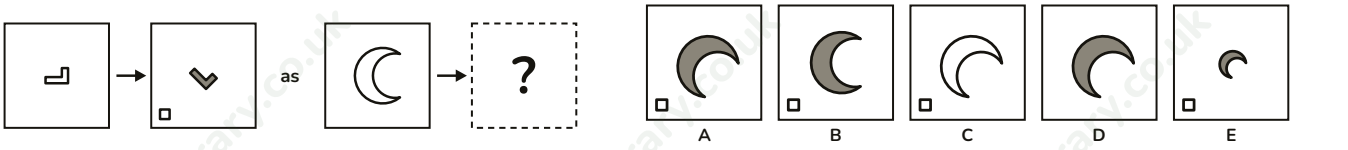
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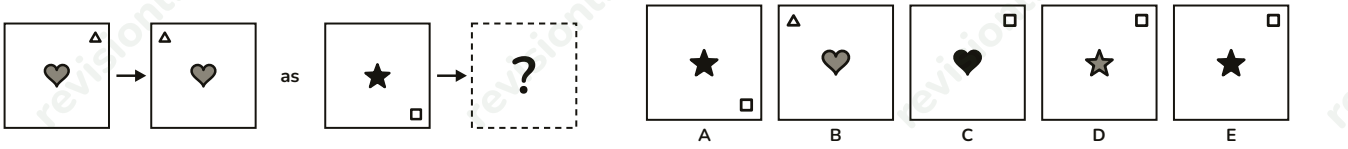
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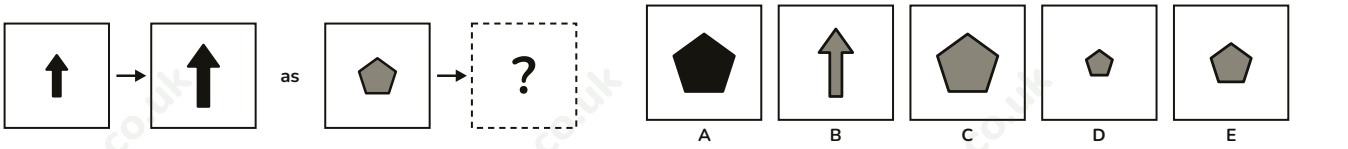
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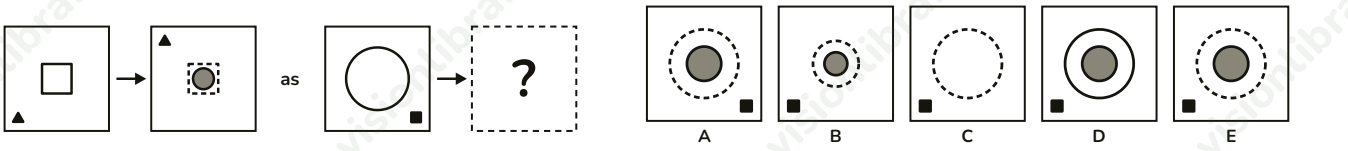
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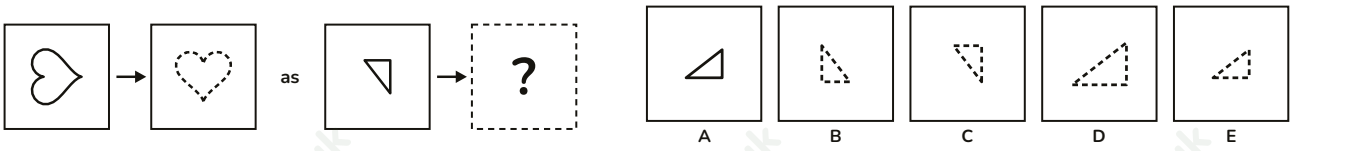
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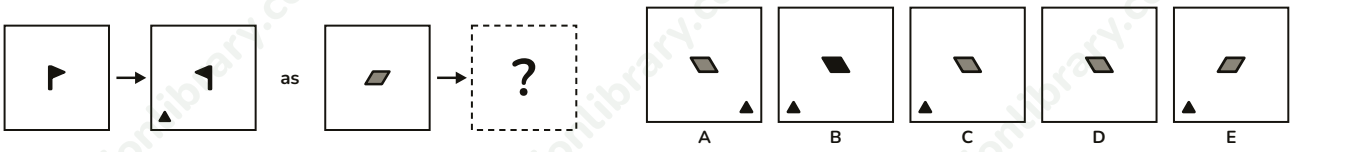
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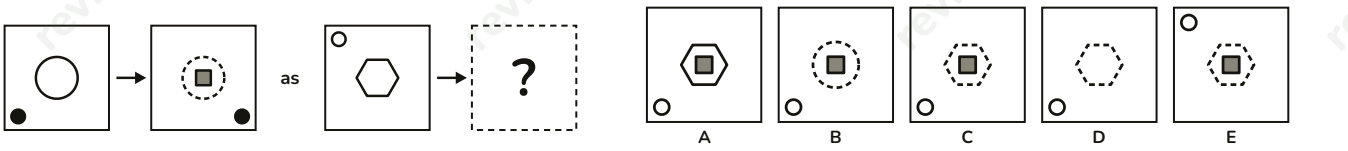
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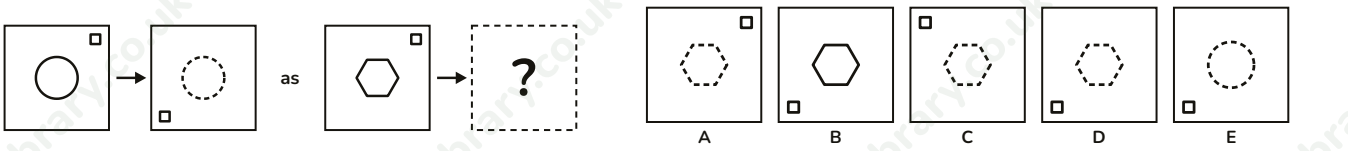
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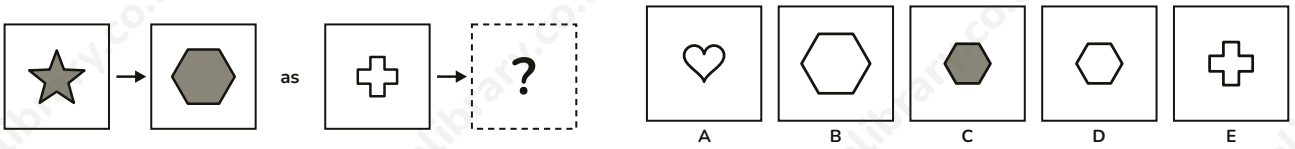


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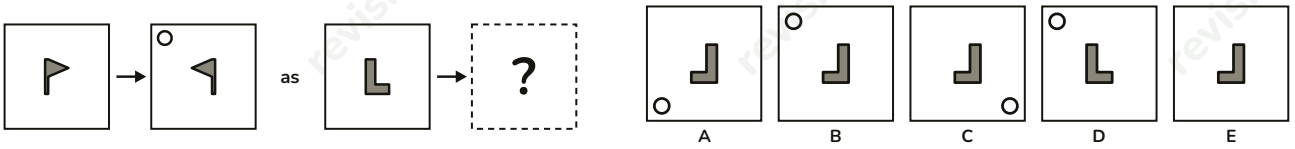


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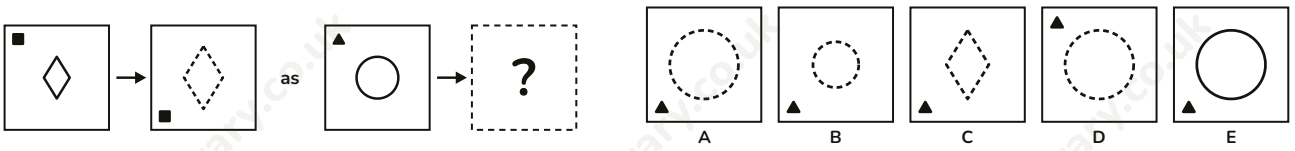
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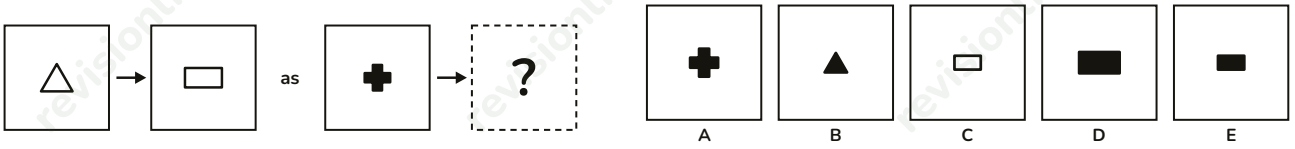
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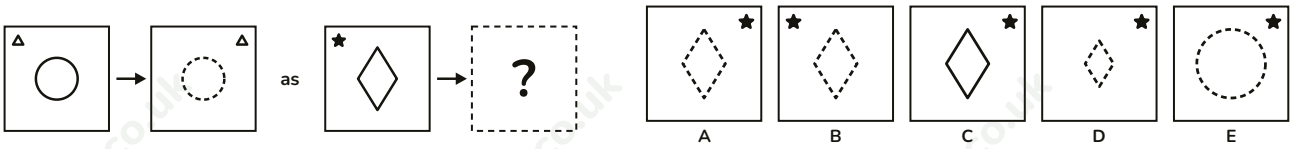
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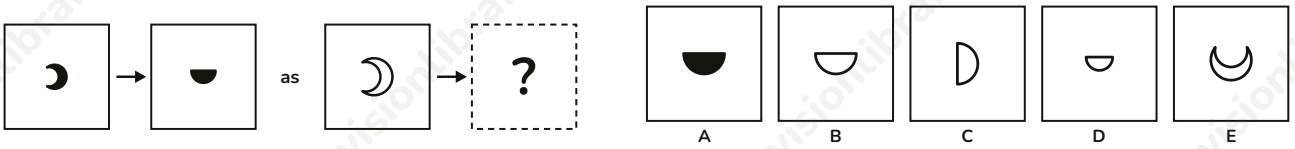
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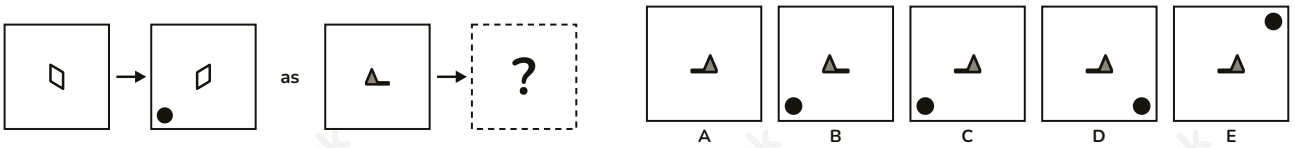
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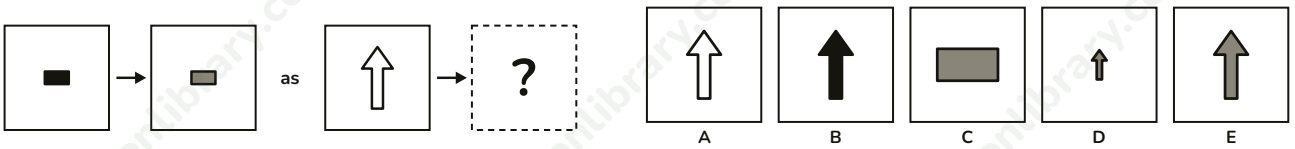
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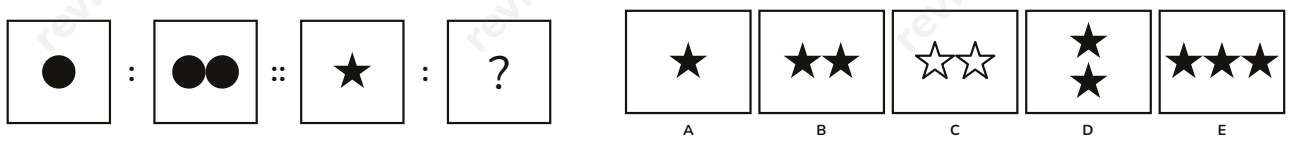
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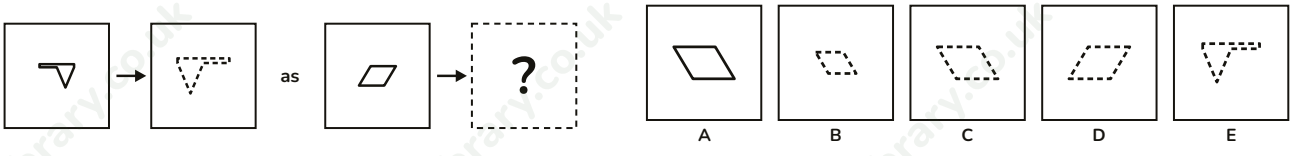
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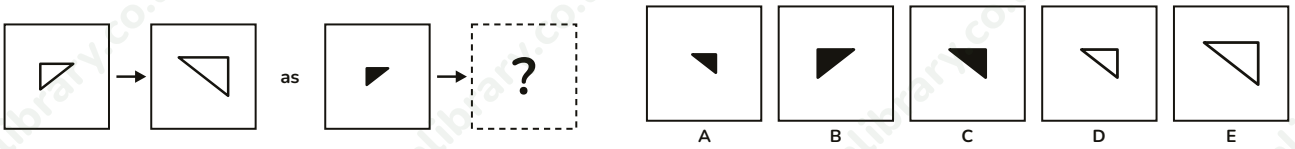


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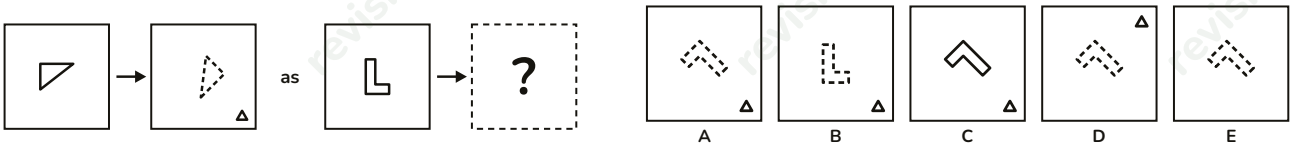


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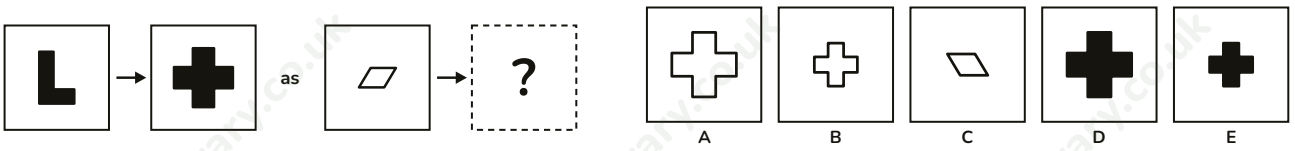
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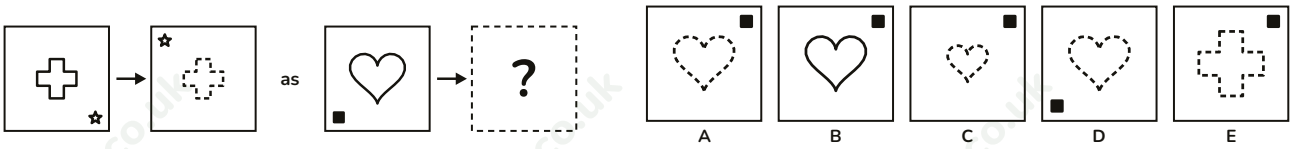
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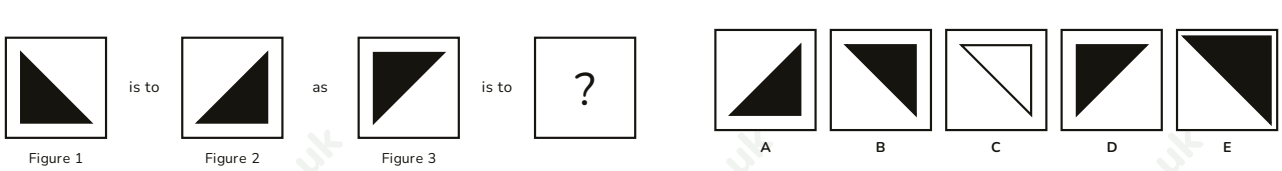
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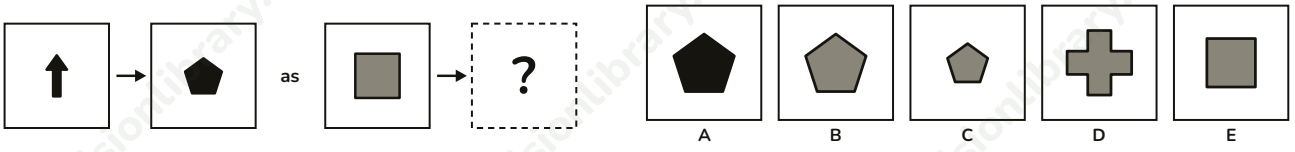
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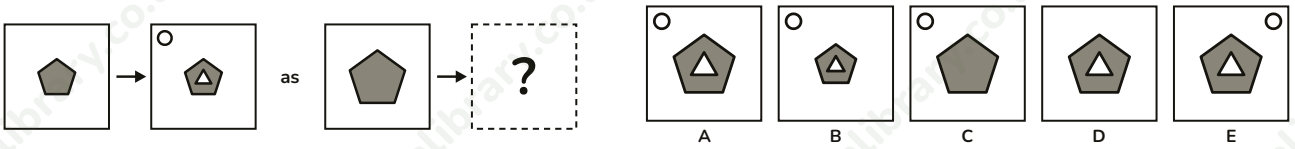


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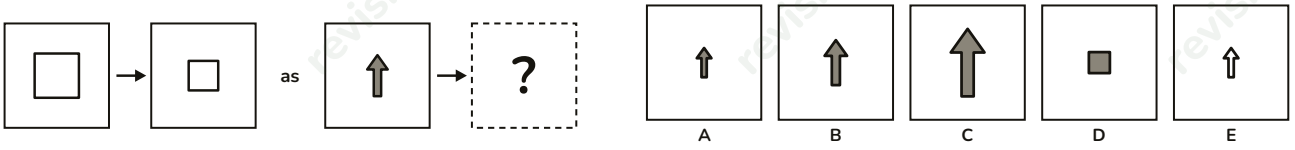


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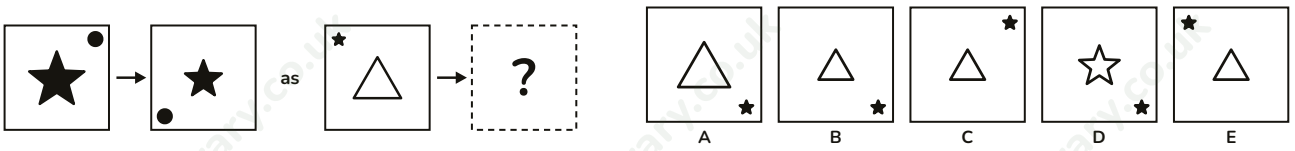
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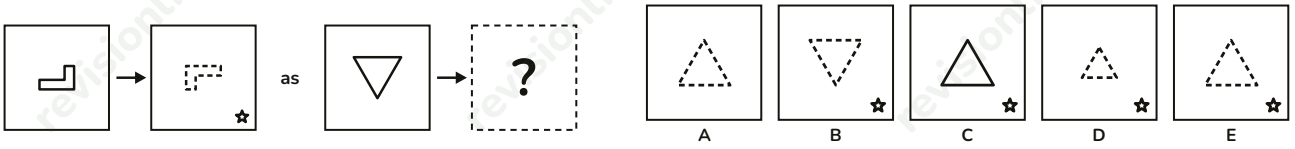
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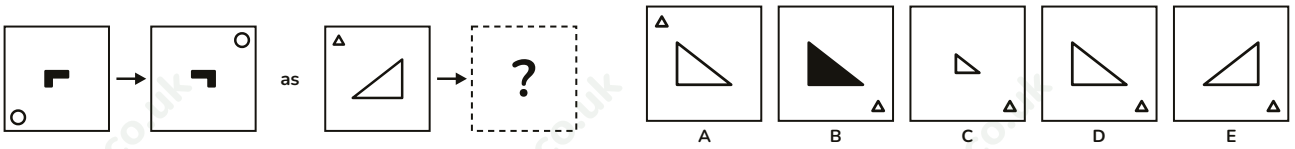
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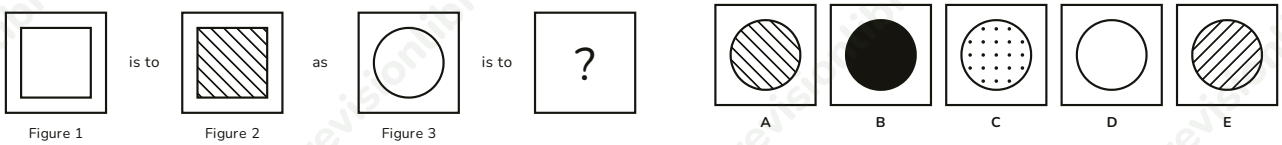
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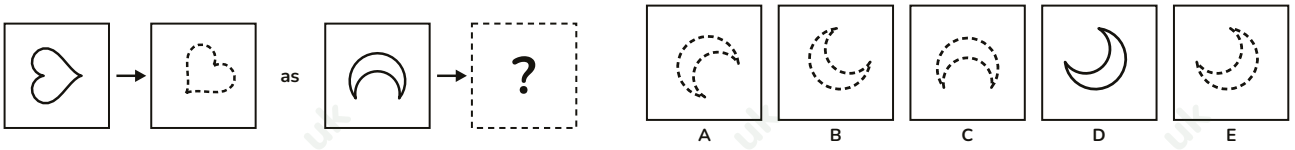
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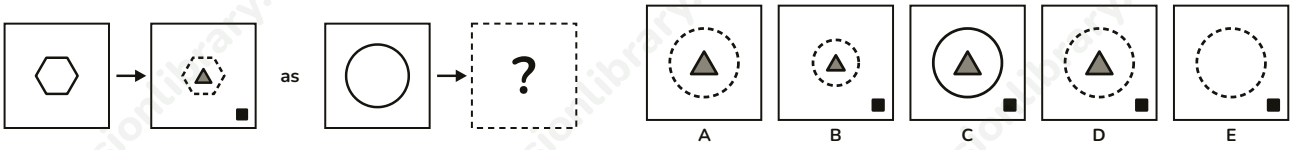
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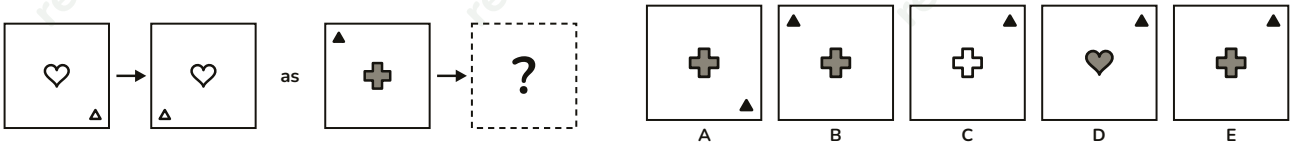
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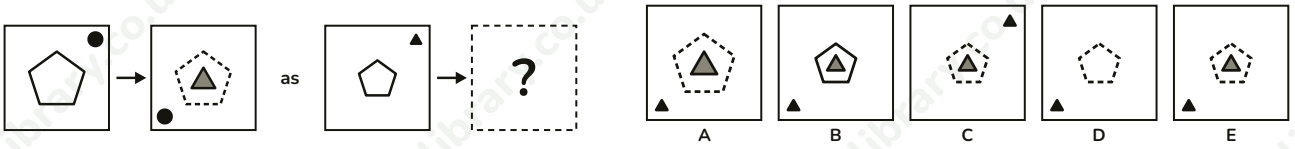
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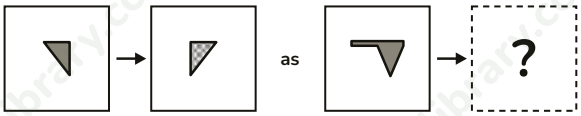


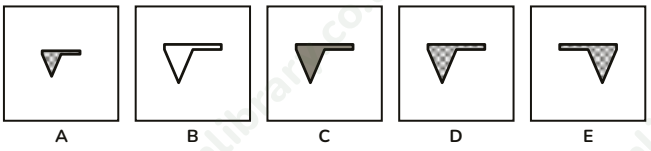
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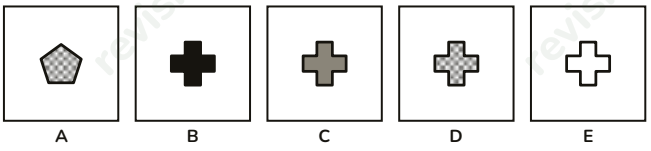
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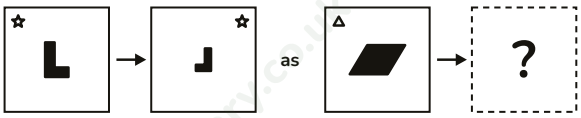


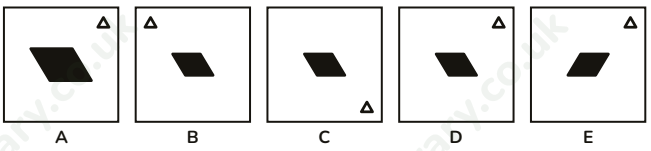
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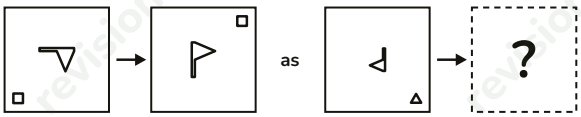


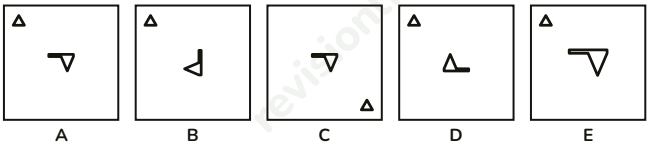
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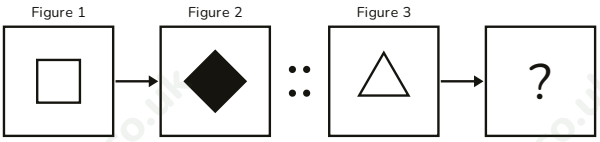


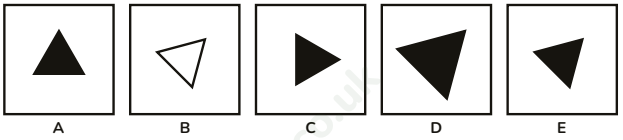
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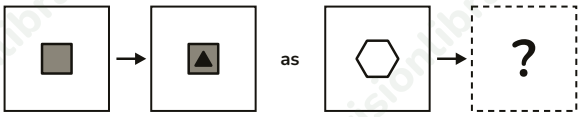


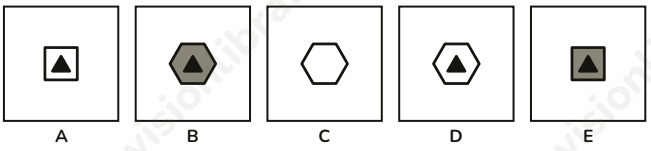
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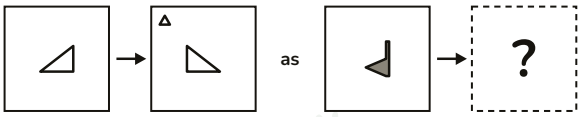


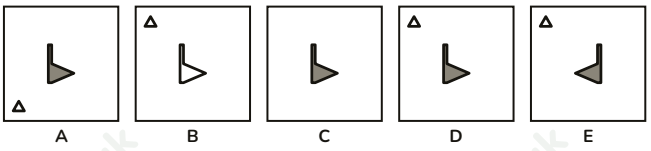
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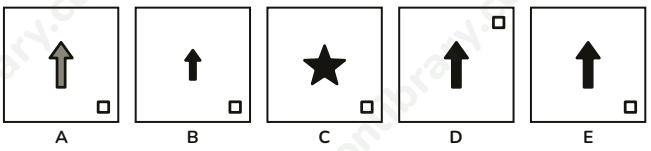
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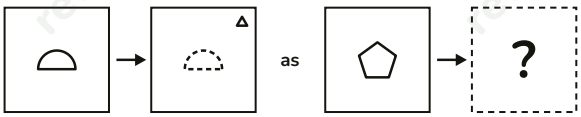


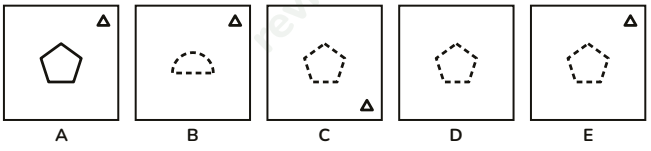
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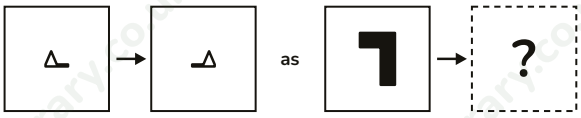


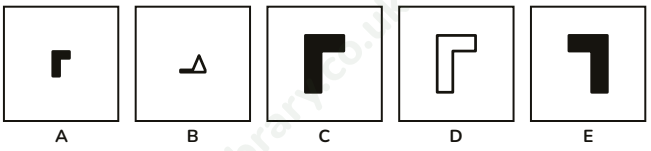
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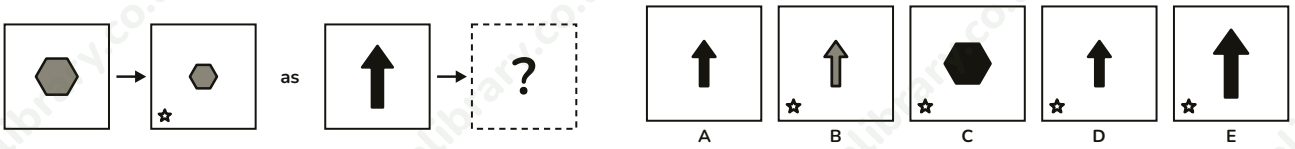
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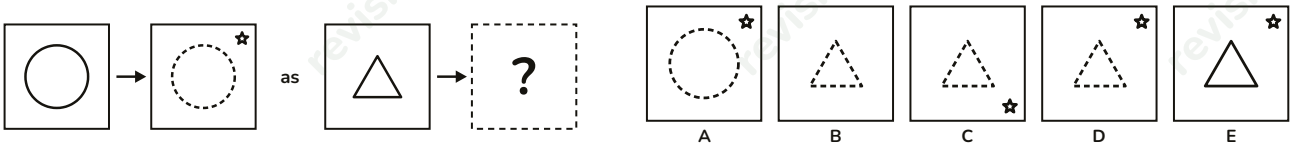


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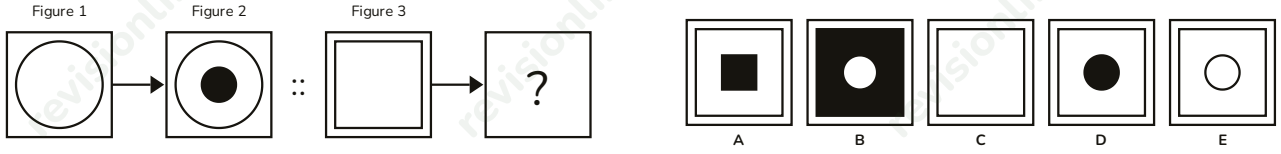
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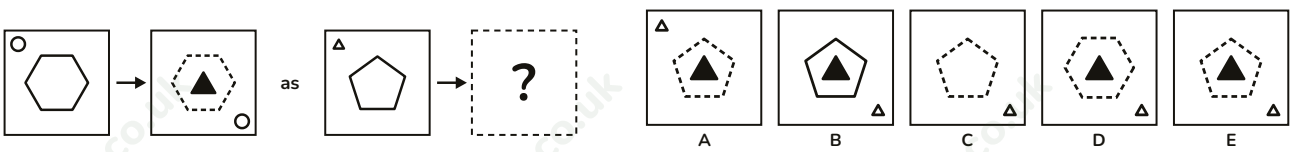
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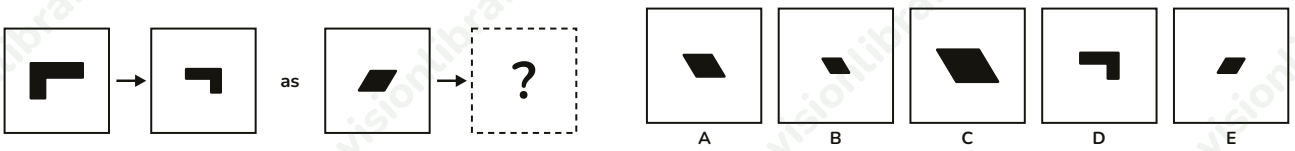
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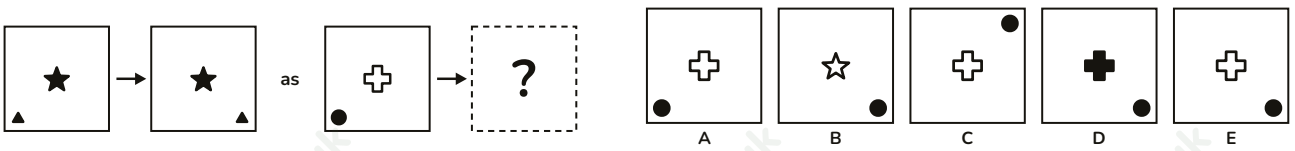
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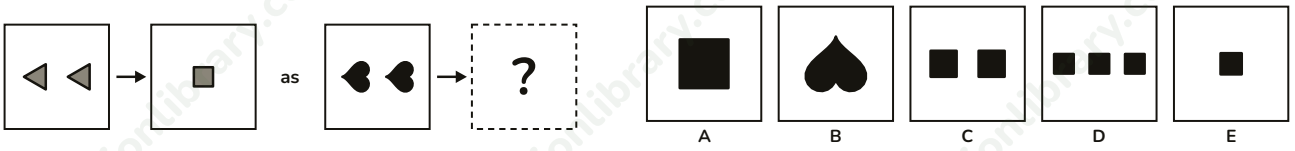
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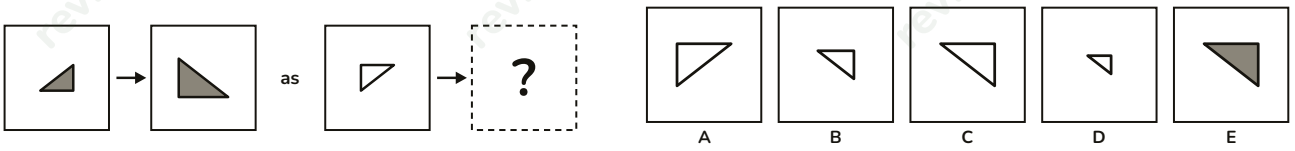
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Mark scheme · 4.4 Analogies: 2-hour Pack

Question 1

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

Answer: C) A medium mid-grey parallelogram (mirrored left to right, then turned 180 degrees clockwise) and a small unshaded (white) circle in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 2

Correct option identified (D oe) - arrow rotated 45 degrees clockwise from pointing up to pointing north-east, shading and size unchanged **B1**

Answer: D

Question 3

selects option C: from Figure 1 to Figure 2, the small corner shape moves one corner clockwise; the same change to Figure 3 gives A small mid-grey semicircle with its curved side facing up and a small unshaded (white) circle in the bottom-right (cao) **B1**

Answer: C) A small mid-grey semicircle with its curved side facing up and a small unshaded (white) circle in the bottom-right

Question 4

selects option D: from Figure 1 to Figure 2, one more shape is added and each shape becomes small; the same change to Figure 3 gives Two small unshaded (white) squares side by side in a row (cao) **B1**

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

Question 5

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

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

Question 6

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

Answer: C) A large unshaded (white) parallelogram (mirrored left to right, then turned 270 degrees clockwise), dashed outline and a small unshaded (white) circle in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 7

selects option A: from Figure 1 to Figure 2, the outline becomes dashed; a small triangle appears in the top-right corner; the same change to Figure 3 gives A large unshaded (white) arrow pointing up, dashed outline and a small unshaded (white) triangle with one point facing up in the top-right (cao) **B1**

Answer: A) A large unshaded (white) arrow pointing up, dashed outline and a small unshaded (white) triangle with one point facing up in the top-right

Question 8

selects option E: from Figure 1 to Figure 2, the shape gets one size larger; the shape is flipped to its mirror image; the shape becomes a circle; the same change to Figure 3 gives A large solid black circle (cao) **B1**

Answer: E) A large solid black circle

Question 9

selects option A: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the shape becomes a triangle; the same change to Figure 3 gives A small unshaded (white) triangle with one point facing right (cao) **B1**

Answer: A) A small unshaded (white) triangle with one point facing right

Question 10

selects option B: 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 solid black heart with its point facing up and a small solid black circle in the bottom-left (cao) **B1**

Answer: B) A small solid black heart with its point facing up and a small solid black circle in the bottom-left

Question 11

Correct option identified (C oe) - dotted/stippled fill pattern applied, shape and size unchanged **B1**

Answer: C

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Question 12

selects option B: from Figure 1 to Figure 2, the shape is turned 90 degrees clockwise; the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) L-shape, dashed outline (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, dashed outline (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 13

selects option B: from Figure 1 to Figure 2, the outline becomes dashed; the shape is turned 45 degrees clockwise; a small triangle appears in the bottom-right corner; the same change to Figure 3 gives A medium unshaded (white) crescent with its tips facing up-left, dashed outline and a small unshaded (white) triangle with one point facing up in the bottom-right (cao) **B1**

Answer: B) A medium unshaded (white) crescent with its tips facing up-left, dashed outline and a small unshaded (white) triangle with one point facing up in the bottom-right

Question 14

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

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

Question 15

Correct option identified (B oe) - arrow rotated 90 degrees clockwise from pointing left to pointing up **B1**

Answer: B

Question 16

Correct option identified (A oe) - horizontal mirror reflection AND shading change to unshaded both applied correctly **B1**

Answer: A

Question 17

Correct option identified (A oe) - all four changes applied together: 90-degree clockwise rotation, size reduced to medium, shading to unshaded, outline to thin **B1**

Answer: A

Question 18

Correct option identified (C oe) - inner triangle rotated 180 degrees, outer circle shading, size and shape unchanged **B1**

Answer: C

Question 19

Correct option identified (B oe) - every shading in the sequence swapped (black to unshaded and unshaded to black), shape and arrangement unchanged **B1**

Answer: B

Question 20

Correct option identified (D oe) - both shading swap between the two figures AND 45-degree clockwise rotation applied together, shape and arrangement kept as pentagons side by side **B1**

Answer: D

Question 21

selects option D: from Figure 1 to Figure 2, the shape becomes diagonally hatched; the same change to Figure 3 gives A large diagonally hatched arrow pointing up (cao) **B1**

Answer: D) A large diagonally hatched arrow pointing up

Question 22

selects option B: from Figure 1 to Figure 2, a small star appears in the bottom-right corner; the outline becomes dashed; the shape gets one size larger; the same change to Figure 3 gives A large unshaded (white) star with one point facing up, dashed outline and a small unshaded (white) star with one point facing up in the bottom-right (cao) **B1**

Answer: B) A large unshaded (white) star with one point facing up, dashed outline and a small unshaded (white) star with one point facing up in the bottom-right

Question 23

selects option E: from Figure 1 to Figure 2, the shape gets one size smaller; a small triangle appears in the bottom-right corner; the same change to Figure 3 gives A small unshaded (white) star with one point facing up and a small solid black triangle with one point facing up in the bottom-right (cao) **B1**

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

Question 24

Correct option identified (E oe) - diamond kept unshaded, size reduced to small **B1**

Answer: E

Question 25

selects option E: from Figure 1 to Figure 2, a small star appears in the bottom-right corner; the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) rectangle, dashed outline and a small solid black star with one point facing up in the bottom-right (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: E) A medium unshaded (white) rectangle, dashed outline and a small solid black star with one point facing up in the bottom-right (upright, the rectangle has its long sides horizontal)

Question 26

selects option A: from Figure 1 to Figure 2, the shape becomes mid-grey; a small square appears in the bottom-left corner; the shape is turned 45 degrees clockwise; the same change to Figure 3 gives A large mid-grey crescent with its tips facing down-right and a small unshaded (white) square in the bottom-left (cao) **B1**

Answer: A) A large mid-grey crescent with its tips facing down-right and a small unshaded (white) square in the bottom-left

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Question 27

selects option E: from Figure 1 to Figure 2, the small corner shape moves one corner anticlockwise; the same change to Figure 3 gives A small solid black star with one point facing up and a small unshaded (white) square in the top-right (cao) **B1**

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

Question 28

selects option C: from Figure 1 to Figure 2, the shape gets one size larger; the same change to Figure 3 gives A large mid-grey pentagon with one point facing up (cao) **B1**

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

Question 29

selects option E: from Figure 1 to Figure 2, the outline becomes dashed; a smaller circle appears inside; the small corner shape moves one corner clockwise; the same change to Figure 3 gives A large unshaded (white) circle, dashed outline, with a small mid-grey circle centred inside it and a small solid black square in the bottom-left (cao) **B1**

Answer: E) A large unshaded (white) circle, dashed outline, with a small mid-grey circle centred inside it and a small solid black square in the bottom-left

Question 30

selects option E: from Figure 1 to Figure 2, the shape is turned 90 degrees clockwise; the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) right-angled triangle (turned 270 degrees clockwise), dashed outline (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: E) A medium unshaded (white) right-angled triangle (turned 270 degrees clockwise), dashed outline (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 31

selects option C: from Figure 1 to Figure 2, the shape is flipped to its mirror image; a small triangle appears in the bottom-left corner; the same change to Figure 3 gives A small mid-grey parallelogram (mirrored left to right) and a small solid black 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: C) A small mid-grey parallelogram (mirrored left to right) and a small solid black triangle with one point facing up in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 32

selects option C: from Figure 1 to Figure 2, a smaller square appears inside; the outline becomes dashed; the small corner shape moves one corner anticlockwise; 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 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, with a small mid-grey square centred inside it and a small unshaded (white) circle in the bottom-left (upright, the hexagon has its flat top and bottom)

Question 33

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

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

Question 34

selects option D: from Figure 1 to Figure 2, the shape becomes a hexagon; the same change to Figure 3 gives A medium unshaded (white) hexagon (upright, the hexagon has its flat top and bottom) (cao) **B1**

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

Question 35

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

Question 36

selects option A: from Figure 1 to Figure 2, the small corner shape moves one corner anticlockwise; the shape gets one size larger; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) circle, dashed outline and a small solid black triangle with one point facing up in the bottom-left (cao) **B1**

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

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Question 37

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

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

Question 38

selects option A: from Figure 1 to Figure 2, the outline becomes dashed; the small corner shape moves one corner clockwise; the same change to Figure 3 gives A large unshaded (white) diamond, dashed outline and a small solid black star with one point facing up in the top-right (cao) **B1**

Answer: A) A large unshaded (white) diamond, dashed outline and a small solid black star with one point facing up in the top-right

Question 39

selects option B: from Figure 1 to Figure 2, the shape is turned 90 degrees clockwise; the shape becomes a semicircle; the same change to Figure 3 gives A medium unshaded (white) semicircle with its curved side facing down (cao) **B1**

Answer: B) A medium unshaded (white) semicircle with its curved side facing down

Question 40

selects option C: from Figure 1 to Figure 2, a small circle appears in the bottom-left corner; the shape is flipped to its mirror image; the same change to Figure 3 gives A small mid-grey flag (mirrored left to right, then turned 90 degrees clockwise) and a small solid black circle in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: C) A small mid-grey flag (mirrored left to right, then turned 90 degrees clockwise) and a small solid black circle in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 41

selects option E: from Figure 1 to Figure 2, the shape becomes mid-grey; the same change to Figure 3 gives A large mid-grey arrow pointing up (cao) **B1**

Answer: E) A large mid-grey arrow pointing up

Question 42

Correct option identified (B oe) - count doubled to two shapes, side by side, same shading **B1**

Answer: B

Question 43

selects option C: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the outline becomes dashed; the shape gets one size larger; the same change to Figure 3 gives A large unshaded (white) parallelogram (mirrored left to right), dashed outline (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

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

Question 44

selects option C: from Figure 1 to Figure 2, the shape gets one size larger; 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, then turned 270 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: C) A medium solid black right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 45

selects option A: from Figure 1 to Figure 2, the outline becomes dashed; the shape is turned 135 degrees clockwise; a small triangle appears in the bottom-right corner; the same change to Figure 3 gives A medium unshaded (white) L-shape (turned 135 degrees clockwise), dashed outline and a small unshaded (white) triangle with one point facing up in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: A) A medium unshaded (white) L-shape (turned 135 degrees clockwise), dashed outline and a small unshaded (white) triangle with one point facing up in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 46

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

Answer: B) A medium unshaded (white) cross

Question 47

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

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

Question 48

selects option A: from Figure 1 to Figure 2, the small corner shape moves to the opposite corner; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) heart with its point facing down, dashed outline and a small solid black square in the top-right (cao) **B1**

Answer: A) A large unshaded (white) heart with its point facing down, dashed outline and a small solid black square in the top-right

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Question 49

selects option E: from Figure 1 to Figure 2, a smaller square appears inside; the small corner shape moves one corner clockwise; the same change to Figure 3 gives A small solid black pentagon with one point facing up, with a small unshaded (white) square centred inside it and a small unshaded (white) star with one point facing up in the bottom-left (cao) **B1**

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

Question 50

Correct option identified (B oe) - horizontal mirror reflection applied correctly, right angle moves from top-left to top-right **B1**

Answer: B

Question 51

selects option B: from Figure 1 to Figure 2, the shape becomes a pentagon; the same change to Figure 3 gives A large mid-grey pentagon with one point facing up (cao) **B1**

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

Question 52

selects option B: from Figure 1 to Figure 2, the shape is turned 135 degrees clockwise; the shape gets one size larger; a small star appears in the bottom-right corner; the same change to Figure 3 gives A large solid black flag (turned 135 degrees clockwise) and a small unshaded (white) star with one point facing up in the bottom-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: B) A large solid black flag (turned 135 degrees clockwise) and a small unshaded (white) star with one point facing up in the bottom-right (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 53

selects option E: from Figure 1 to Figure 2, the shape becomes a triangle; the same change to Figure 3 gives A large solid black triangle with one point facing up (cao) **B1**

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

Question 54

selects option A: from Figure 1 to Figure 2, a smaller triangle appears inside; a small circle appears in the top-left corner; 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 and a small unshaded (white) circle in the top-left (cao) **B1**

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

Question 55

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 arrow pointing up (cao) **B1**

Answer: A) A small mid-grey arrow pointing up

Question 56

selects option B: from Figure 1 to Figure 2, the small corner shape moves to the opposite corner; the shape gets one size smaller; the same change to Figure 3 gives A medium unshaded (white) triangle with one point facing up and a small solid black star with one point facing up in the bottom-right (cao) **B1**

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

Question 57

selects option E: from Figure 1 to Figure 2, the shape is turned 180 degrees clockwise; a small star appears in the bottom-right corner; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) triangle with one point facing up, dashed outline and a small unshaded (white) star with one point facing up in the bottom-right (cao) **B1**

Answer: E) A large unshaded (white) triangle with one point facing up, dashed outline and a small unshaded (white) star with one point facing up in the bottom-right

Question 58

selects option D: from Figure 1 to Figure 2, the small corner shape moves to the opposite corner; the shape is flipped to its mirror image; the same change to Figure 3 gives A large unshaded (white) right-angled triangle (mirrored left to right, then turned 90 degrees clockwise) and a small unshaded (white) triangle with one point facing up 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: D) A large unshaded (white) right-angled triangle (mirrored left to right, then turned 90 degrees clockwise) and a small unshaded (white) triangle with one point facing up in the bottom-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 59

Correct option identified (A oe) - diagonal hatching in the same direction applied, size and shape unchanged **B1**

Answer: A

Question 60

selects option E: from Figure 1 to Figure 2, the shape is turned 135 degrees clockwise; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) crescent with its tips facing up-left, dashed outline (cao) **B1**

Answer: E) A large unshaded (white) crescent with its tips facing up-left, dashed outline

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Question 61

selects option D: from Figure 1 to Figure 2, a smaller triangle appears inside; a small square appears in the bottom-right corner; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) circle, dashed outline, with a small mid-grey triangle with one point facing up centred inside it and a small solid black square in the bottom-right (cao) **B1**

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

Question 62

selects option E: from Figure 1 to Figure 2, the small corner shape moves one corner clockwise; the same change to Figure 3 gives A small mid-grey cross and a small solid black triangle with one point facing up in the top-right (cao) **B1**

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

Question 63

selects option E: from Figure 1 to Figure 2, the small corner shape moves to the opposite corner; the outline becomes dashed; a smaller triangle appears inside; the same change to Figure 3 gives A medium unshaded (white) pentagon with one point facing up, dashed outline, 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-left (cao) **B1**

Answer: E) A medium unshaded (white) pentagon with one point facing up, dashed outline, 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-left

Question 64

selects option D: from Figure 1 to Figure 2, the shape becomes cross-hatched; the shape is flipped to its mirror image; the same change to Figure 3 gives A large cross-hatched flag (mirrored left to right, then turned 270 degrees clockwise) (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: D) A large cross-hatched flag (mirrored left to right, then turned 270 degrees clockwise) (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 65

selects option D: from Figure 1 to Figure 2, the shape gets one size larger; the shape becomes cross-hatched; the same change to Figure 3 gives A medium cross-hatched cross (cao) **B1**

Answer: D) A medium cross-hatched cross

Question 66

selects option D: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the small corner shape moves one corner clockwise; the shape gets one size smaller; the same change to Figure 3 gives A medium 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 top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: D) A medium 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 top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 67

selects option A: from Figure 1 to Figure 2, the small corner shape moves to the opposite corner; the shape is turned 270 degrees clockwise; the same change to Figure 3 gives A small unshaded (white) flag (turned 90 degrees clockwise) and a small unshaded (white) triangle with one point facing up in the top-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: A) A small unshaded (white) flag (turned 90 degrees clockwise) and a small unshaded (white) triangle with one point facing up in the top-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 68

Correct option identified (E oe) - both shading change to solid black and 45-degree clockwise rotation applied together **B1**

Answer: E

Question 69

selects option D: from Figure 1 to Figure 2, a smaller triangle appears inside; the same change to Figure 3 gives A medium unshaded (white) hexagon, with a small solid black triangle with one point facing up centred inside it (upright, the hexagon has its flat top and bottom) (cao) **B1**

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

Question 70

selects option D: from Figure 1 to Figure 2, the shape is flipped to its mirror image; a small triangle appears in the top-left corner; the same change to Figure 3 gives A medium mid-grey flag (mirrored left to right, then turned 180 degrees clockwise) and a small unshaded (white) triangle with one point facing up in the top-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: D) A medium mid-grey flag (mirrored left to right, then turned 180 degrees clockwise) and a small unshaded (white) triangle with one point facing up in the top-left (upright, the flag has its pole on the left, pennant pointing right from the top)

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Question 71

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

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

Question 72

selects option E: from Figure 1 to Figure 2, a small triangle appears in the top-right corner; the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) pentagon with one point facing up, dashed outline and a small unshaded (white) triangle with one point facing up in the top-right (cao) **B1**

Answer: E) A medium unshaded (white) pentagon with one point facing up, dashed outline and a small unshaded (white) triangle with one point facing up in the top-right

Question 73

selects option C: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the same change to Figure 3 gives A large solid black L-shape (mirrored left to right, then turned 180 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 solid black L-shape (mirrored left to right, then turned 180 degrees clockwise) (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 74

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

Answer: D) A medium solid black arrow pointing up and a small unshaded (white) star with one point facing up in the bottom-left

Question 75

selects option D: from Figure 1 to Figure 2, a small star appears in the top-right corner; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) triangle with one point facing up, dashed outline and a small unshaded (white) star with one point facing up in the top-right (cao) **B1**

Answer: D) A large unshaded (white) triangle with one point facing up, dashed outline and a small unshaded (white) star with one point facing up in the top-right

Question 76

selects option B: from Figure 1 to Figure 2, the shape becomes a semicircle; the same change to Figure 3 gives A small solid black semicircle with its curved side facing up (cao) **B1**

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

Question 77

Correct option identified (D oe) - small solid black circle added, centred, outer square unchanged **B1**

Answer: D

Question 78

selects option E: from Figure 1 to Figure 2, a smaller triangle appears inside; the small corner shape moves to the opposite corner; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) pentagon with one point facing up, dashed outline, with a small solid black triangle with one point facing up centred inside it and a small unshaded (white) triangle with one point facing up in the bottom-right (cao) **B1**

Answer: E) A large unshaded (white) pentagon with one point facing up, dashed outline, with a small solid black triangle with one point facing up centred inside it and a small unshaded (white) triangle with one point facing up in the bottom-right

Question 79

selects option B: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the shape gets one size smaller; the same change to Figure 3 gives A small solid black parallelogram (mirrored left to right, then turned 180 degrees clockwise) (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: B) A small solid black parallelogram (mirrored left to right, then turned 180 degrees clockwise) (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 80

selects option E: from Figure 1 to Figure 2, the small corner shape moves one corner anticlockwise; the same change to Figure 3 gives A small unshaded (white) cross and a small solid black circle in the bottom-right (cao) **B1**

Answer: E) A small unshaded (white) cross and a small solid black circle in the bottom-right

Question 81

selects option E: from Figure 1 to Figure 2, the shape is turned 90 degrees clockwise; one shape is taken away; the shape becomes a square; the same change to Figure 3 gives A small solid black square (cao) **B1**

Answer: E) A small solid black square

Question 82

selects option C: from Figure 1 to Figure 2, the shape gets one size larger; the shape is flipped to its mirror image; the same change to Figure 3 gives A large unshaded (white) right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: C) A large unshaded (white) right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

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