4.4 Analogies: Test Pack

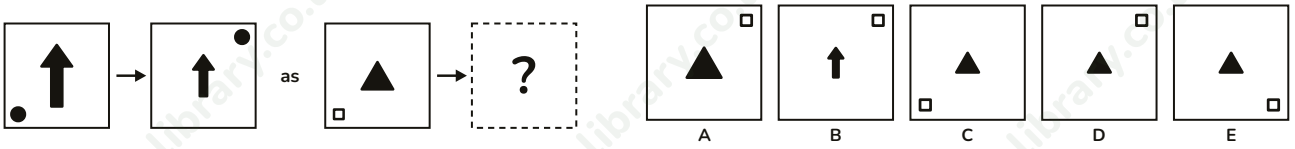
GL ASSESSMENT GL-EP.N4 · Calculators not allowed · about 60 minutes

Total Marks

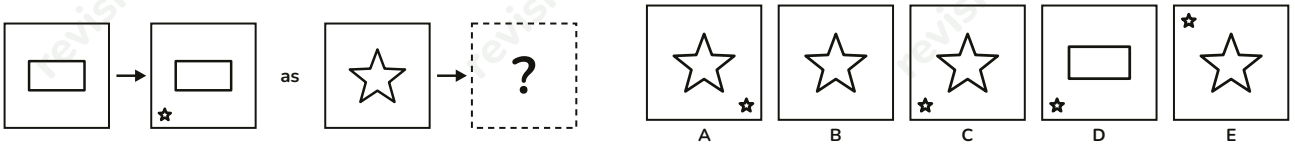
Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

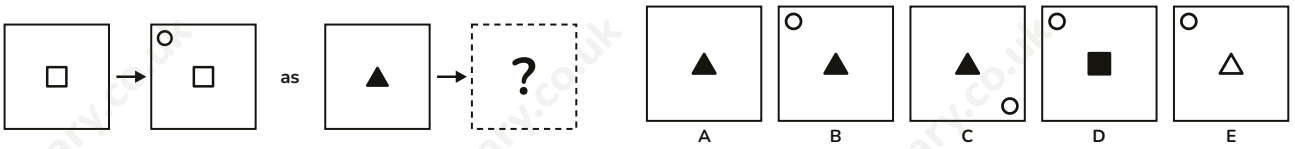
1 Figure 1 is to Figure 2 as Figure 3 is to which option?



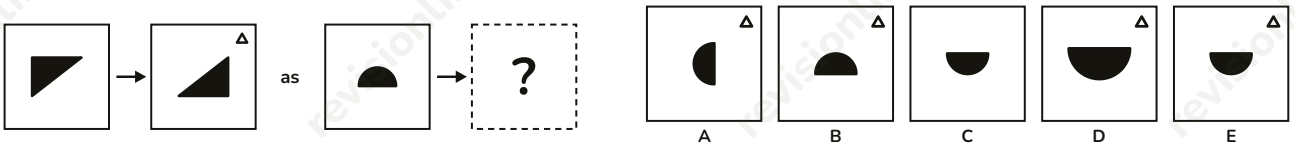
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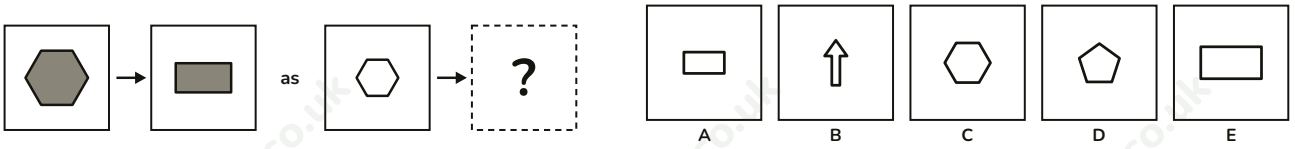
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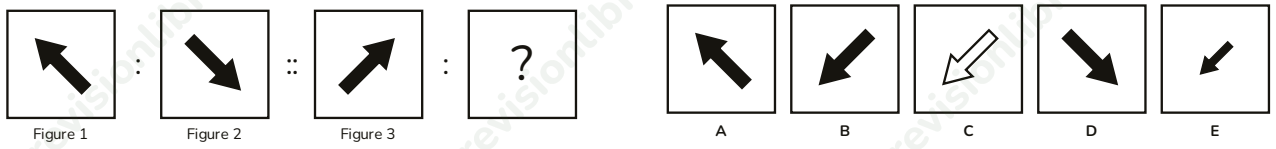
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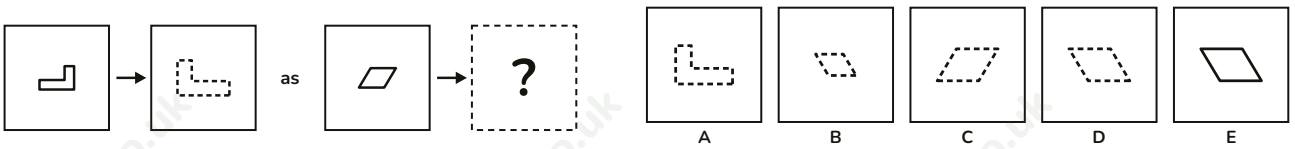
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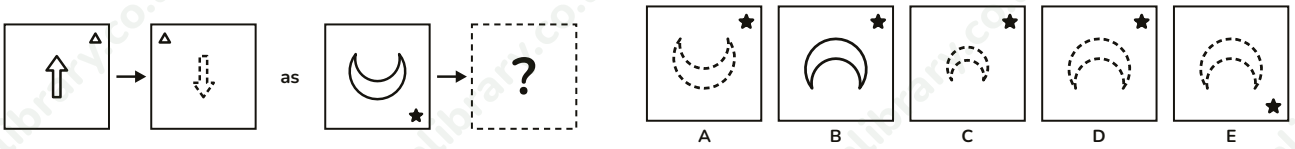


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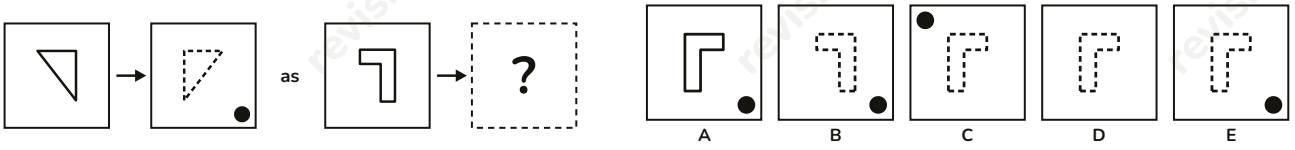


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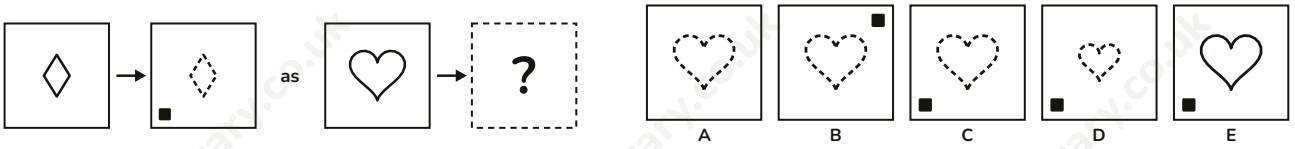
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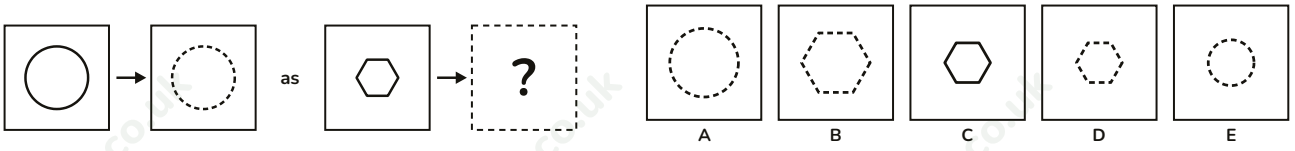
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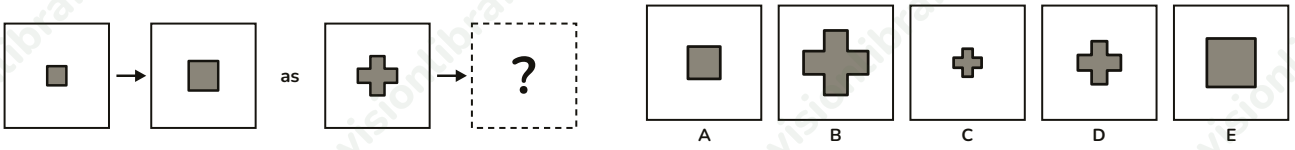
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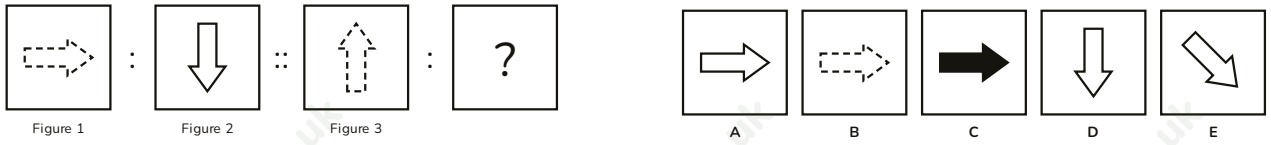
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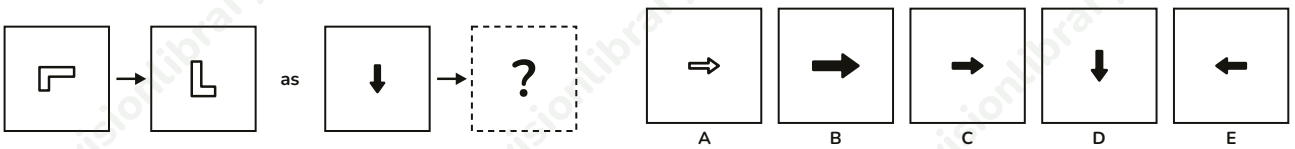
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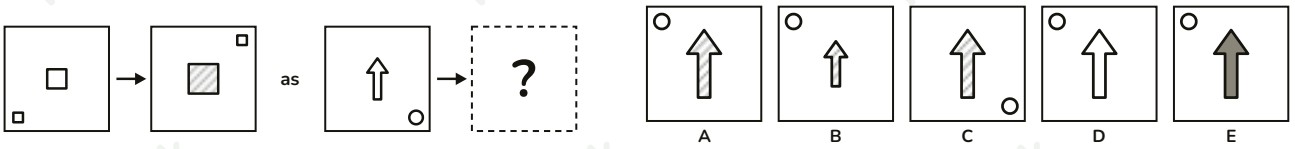
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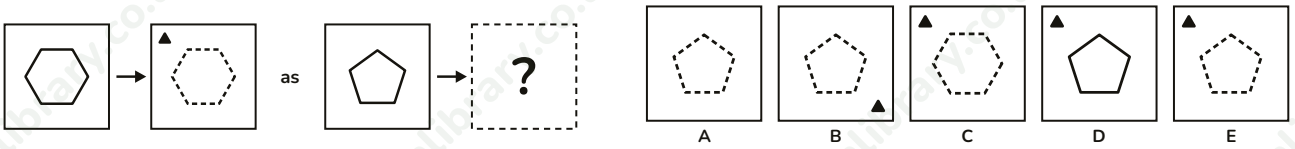


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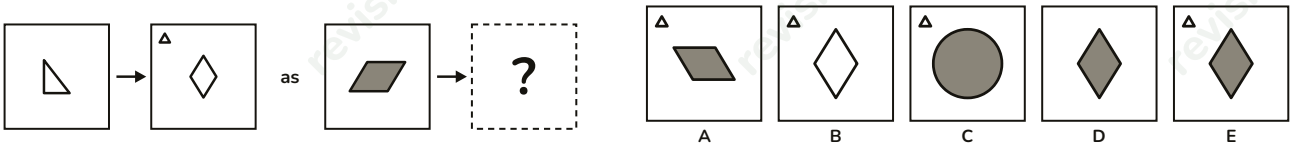


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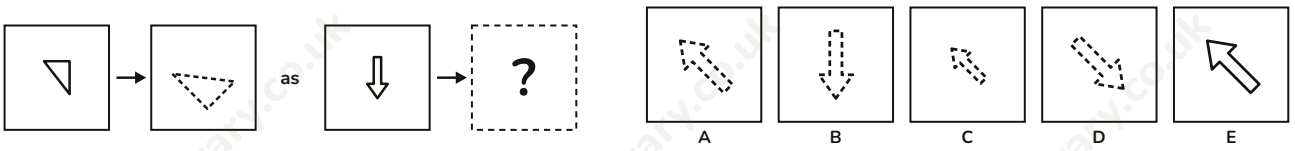
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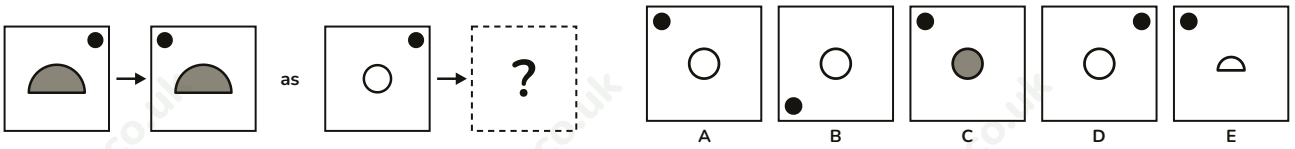
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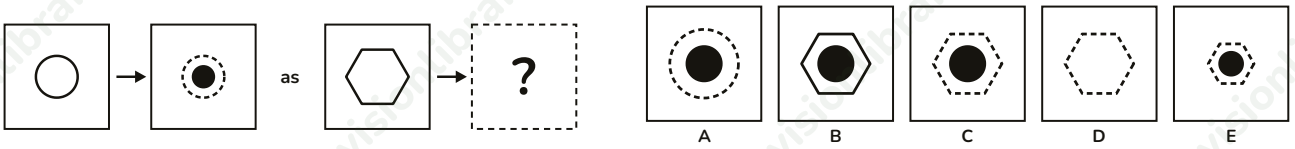
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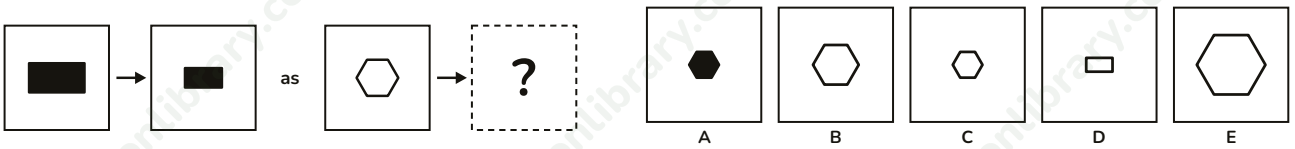
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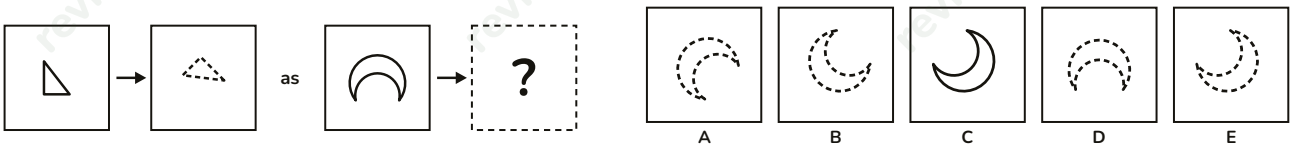
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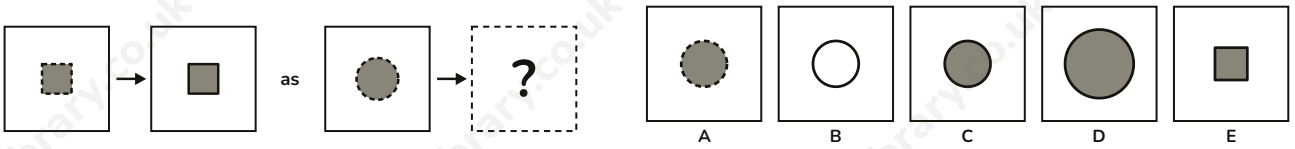
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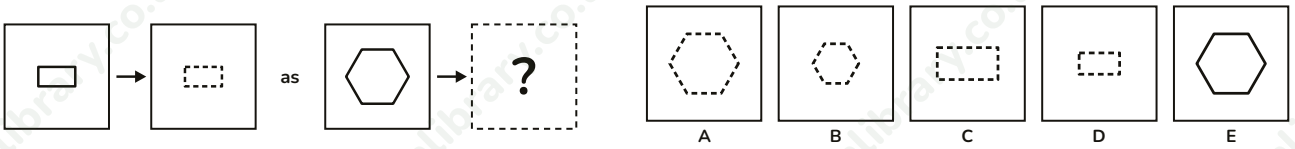


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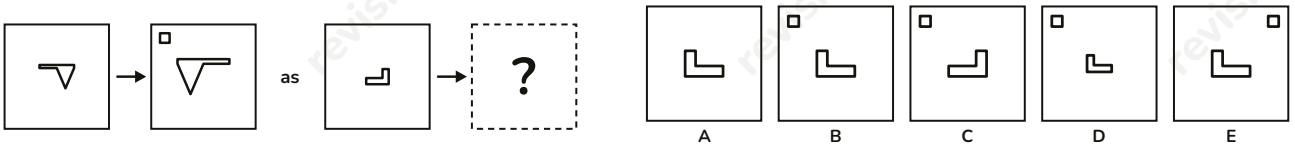


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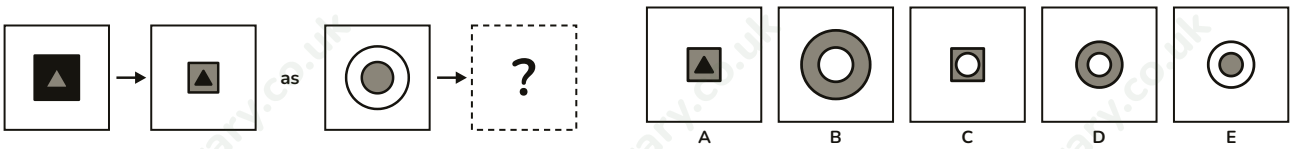
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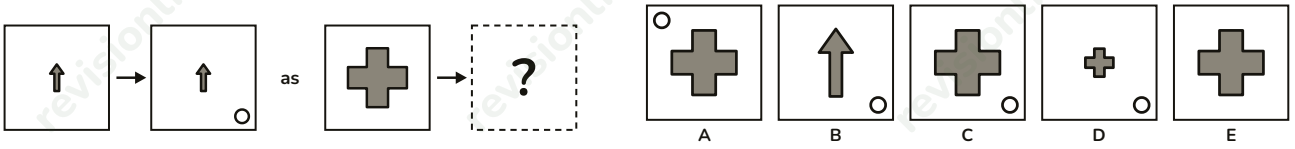
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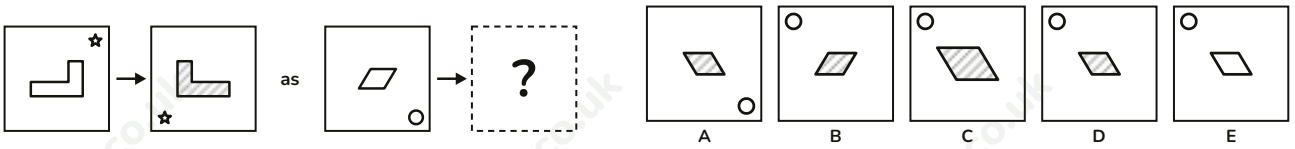
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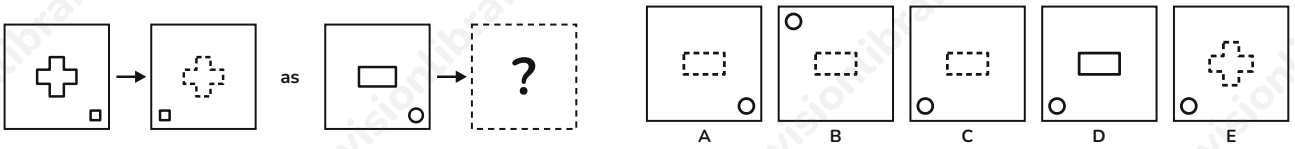
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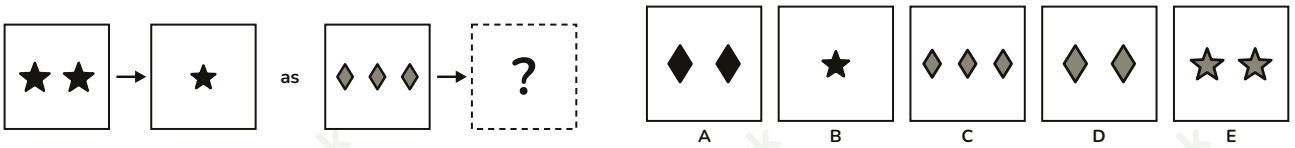
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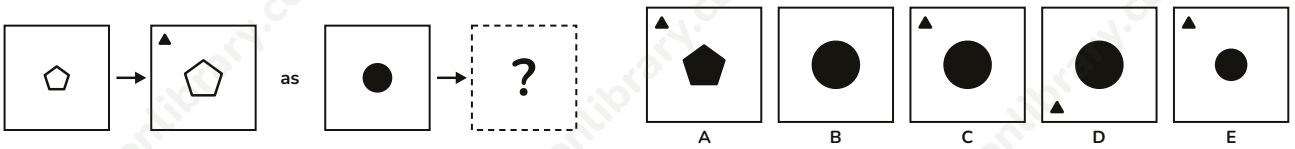
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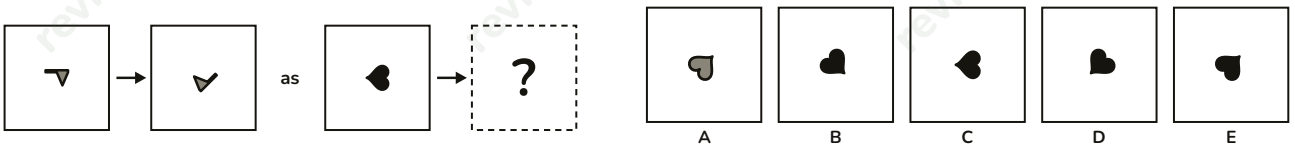
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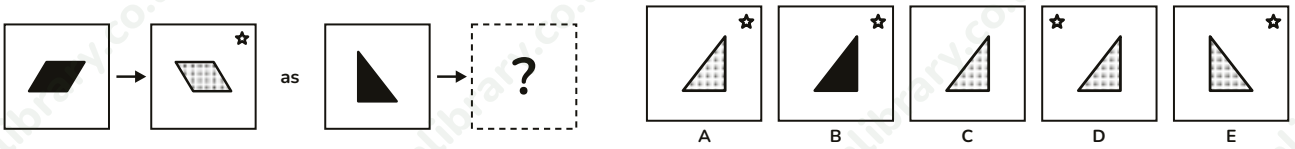


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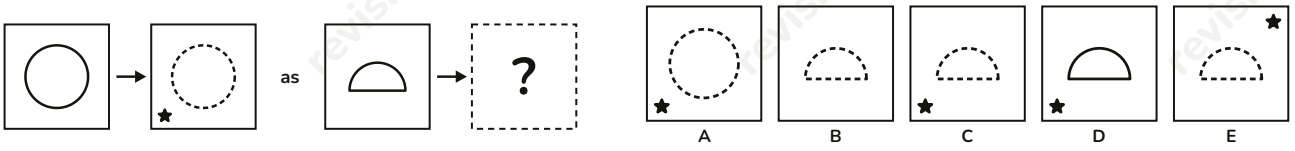


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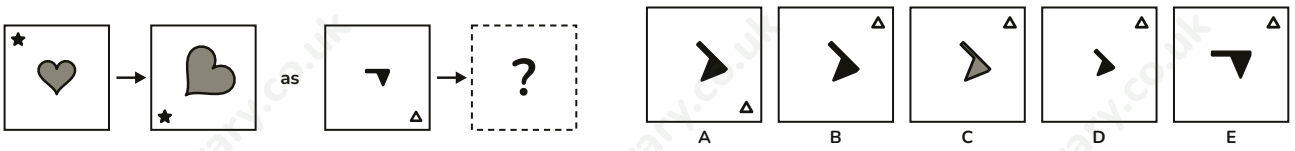
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Mark scheme · 4.4 Analogies: Test Pack

Question 1

selects option D: 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 small solid black triangle with one point facing up and a small unshaded (white) square in the top-right (cao) **B1**

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

Question 2

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

Answer: C) A large unshaded (white) star with one point facing up and a small unshaded (white) star with one point facing up in the bottom-left

Question 3

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

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

Question 4

selects option E: from Figure 1 to Figure 2, a small triangle appears in the top-right corner; the shape is turned 180 degrees clockwise; the same change to Figure 3 gives A medium solid black semicircle with its curved side facing down and a small unshaded (white) triangle with one point facing up in the top-right (cao) **B1**

Answer: E) A medium solid black semicircle with its curved side facing down and a small unshaded (white) triangle with one point facing up in the top-right

Question 5

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 6

Correct option identified (B oe) - arrow rotated 180 degrees from north-east to south-west **B1**

Answer: B

Question 7

selects option D: from Figure 1 to Figure 2, the shape gets one size larger; the shape is flipped to its mirror image; the outline becomes dashed; 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: D) 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 8

selects option D: from Figure 1 to Figure 2, the outline becomes dashed; the shape is turned 180 degrees clockwise; the small corner shape moves one corner anticlockwise; the same change to Figure 3 gives A large unshaded (white) crescent with its tips facing down, dashed outline and a small solid black star with one point facing up in the top-right (cao) **B1**

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

Question 9

selects option E: 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-right corner; the same change to Figure 3 gives A large unshaded (white) L-shape (mirrored left to right, then turned 180 degrees clockwise), dashed outline and a small solid black circle in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: E) A large unshaded (white) L-shape (mirrored left to right, then turned 180 degrees clockwise), dashed outline and a small solid black circle in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 10

selects option C: from Figure 1 to Figure 2, a small square appears in the bottom-left 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 bottom-left (cao) **B1**

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

Question 11

selects option B: from Figure 1 to Figure 2, a small square appears in the top-right corner; the same change to Figure 3 gives A large unshaded (white) heart with its point facing down and a small unshaded (white) square in the top-right (cao) **B1**

Answer: B) A large unshaded (white) heart with its point facing down and a small unshaded (white) square in the top-right

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Question 12

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

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

Question 13

selects option B: from Figure 1 to Figure 2, the shape gets one size larger; the same change to Figure 3 gives A large mid-grey cross (cao) **B1**

Answer: B) A large mid-grey cross

Question 14

Correct option identified (A oe) - arrow rotated 90 degrees clockwise from up to right, and outline changed from dashed to continuous **B1**

Answer: A

Question 15

selects option C: from Figure 1 to Figure 2, the shape is turned 270 degrees clockwise; the same change to Figure 3 gives A small solid black arrow pointing right (cao) **B1**

Answer: C) A small solid black arrow pointing right

Question 16

selects option A: from Figure 1 to Figure 2, the shape gets one size larger; the small corner shape moves to the opposite corner; the shape becomes diagonally hatched; the same change to Figure 3 gives A large diagonally hatched arrow pointing up and a small unshaded (white) circle in the top-left (cao) **B1**

Answer: A) A large diagonally hatched arrow pointing up and a small unshaded (white) circle in the top-left

Question 17

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

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

Question 18

selects option E: from Figure 1 to Figure 2, the shape is flipped to its mirror image; a small triangle appears in the top-left corner; the shape becomes a diamond; the same change to Figure 3 gives A large mid-grey diamond and a small unshaded (white) triangle with one point facing up in the top-left (cao) **B1**

Answer: E) A large mid-grey diamond and a small unshaded (white) triangle with one point facing up in the top-left

Question 19

selects option A: from Figure 1 to Figure 2, the outline becomes dashed; the shape is turned 135 degrees clockwise; the shape gets one size larger; the same change to Figure 3 gives A large unshaded (white) arrow pointing up-left, dashed outline (cao) **B1**

Answer: A) A large unshaded (white) arrow pointing up-left, dashed outline

Question 20

selects option A: from Figure 1 to Figure 2, a smaller circle appears inside; the same change to Figure 3 gives A medium solid black square, with a small unshaded (white) circle centred inside it (cao) **B1**

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

Question 21

selects option A: 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) circle and a small solid black circle in the top-left (cao) **B1**

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

Question 22

selects option C: from Figure 1 to Figure 2, the outline becomes dashed; a smaller circle appears inside; the same change to Figure 3 gives A large unshaded (white) hexagon, dashed outline, with a small solid black circle centred inside it (upright, the hexagon has its flat top and bottom) (cao) **B1**

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

Question 23

selects option E: from Figure 1 to Figure 2, a small star appears in the bottom-left corner; 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 270 degrees clockwise) and a small solid black star with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: E) A large solid black L-shape (mirrored left to right, then turned 270 degrees clockwise) and a small solid black star with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 24

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

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

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Question 25

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

Question 26

Correct option identified (C oe) - outline changed from dashed to continuous, shading and size unchanged **B1**

Answer: C

Question 27

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

Answer: A) A large unshaded (white) hexagon, dashed outline (upright, the hexagon has its flat top and bottom)

Question 28

selects option B: from Figure 1 to Figure 2, the shape is flipped to its mirror image; the shape gets one size larger; a small square appears in the top-left corner; the same change to Figure 3 gives A medium unshaded (white) L-shape (mirrored left to right, then turned 90 degrees clockwise) and a small unshaded (white) square in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: B) A medium unshaded (white) L-shape (mirrored left to right, then turned 90 degrees clockwise) and a small unshaded (white) square in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 29

selects option D: from Figure 1 to Figure 2, the shape gets one size smaller; the shading of the outer and inner shapes swap; the same change to Figure 3 gives A medium mid-grey circle, with a small unshaded (white) circle centred inside it (cao) **B1**

Answer: D) A medium mid-grey circle, with a small unshaded (white) circle centred inside it

Question 30

selects option C: from Figure 1 to Figure 2, a small circle appears in the bottom-right corner; the same change to Figure 3 gives A large mid-grey cross and a small unshaded (white) circle in the bottom-right (cao) **B1**

Answer: C) A large mid-grey cross and a small unshaded (white) circle in the bottom-right

Question 31

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

Answer: D) A medium diagonally hatched parallelogram (mirrored left to right, then turned 180 degrees clockwise) and a small unshaded (white) circle in the top-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, the small corner shape moves one corner clockwise; the outline becomes dashed; the same change to Figure 3 gives A medium unshaded (white) rectangle, dashed outline and a small unshaded (white) circle in the bottom-left (upright, the rectangle has its long sides horizontal) (cao) **B1**

Answer: C) A medium unshaded (white) rectangle, dashed outline and a small unshaded (white) circle in the bottom-left (upright, the rectangle has its long sides horizontal)

Question 33

selects option D: from Figure 1 to Figure 2, one shape is taken away; the same change to Figure 3 gives Two small mid-grey diamonds side by side in a row (cao) **B1**

Answer: D) Two small mid-grey diamonds side by side in a row

Question 34

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

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

Question 35

selects option E: from Figure 1 to Figure 2, the shape is turned 135 degrees clockwise; the same change to Figure 3 gives A small solid black heart with its point facing up-right (cao) **B1**

Answer: E) A small solid black heart with its point facing up-right

Question 36

selects option C: from Figure 1 to Figure 2, the shape is turned 180 degrees clockwise; the same change to Figure 3 gives A large solid black right-angled triangle (turned 180 degrees clockwise) (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

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

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Question 37

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

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

Question 38

selects option C: from Figure 1 to Figure 2, a small star appears in the bottom-left corner; the outline becomes dashed; the same change to Figure 3 gives A large unshaded (white) semicircle with its curved side facing up, dashed outline and a small solid black star with one point facing up in the bottom-left (cao) **B1**

Answer: C) A large unshaded (white) semicircle with its curved side facing up, dashed outline and a small solid black star with one point facing up in the bottom-left

Question 39

selects option B: from Figure 1 to Figure 2, the shape gets one size larger; the shape is turned 45 degrees clockwise; the small corner shape moves one corner anticlockwise; the same change to Figure 3 gives A medium solid black flag (turned 135 degrees clockwise) and a small unshaded (white) triangle with one point facing up in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

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