4.4 Analogies: 30-minute Pack

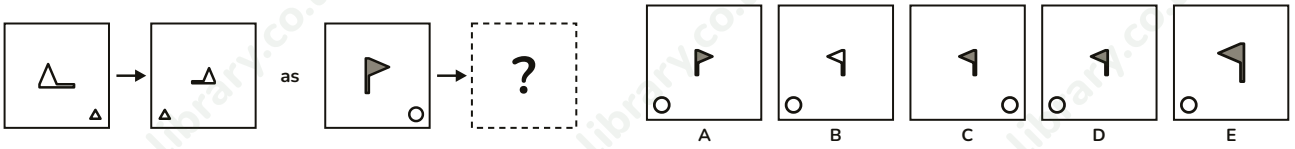
GL ASSESSMENT GL-EP.N4 · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

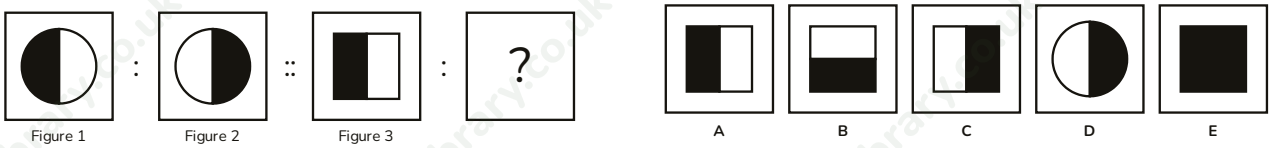
1 Figure 1 is to Figure 2 as Figure 3 is to which option?



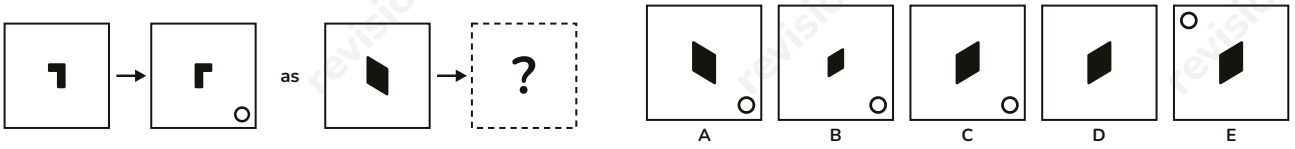
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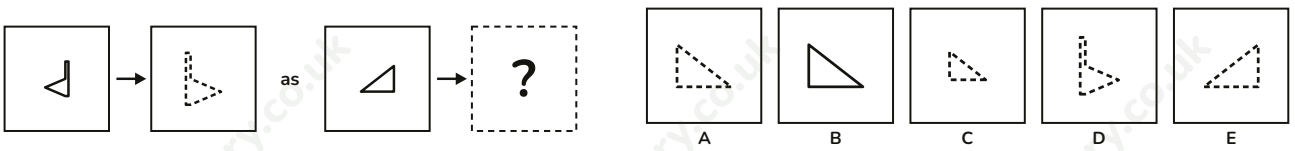
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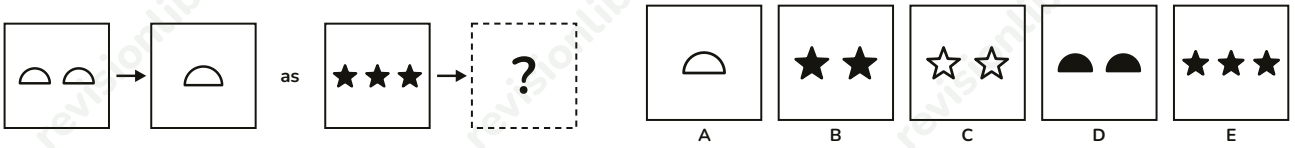
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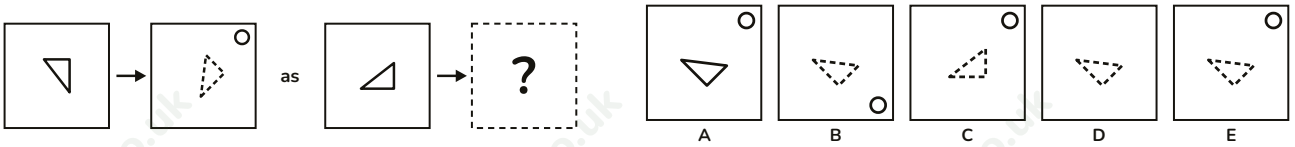
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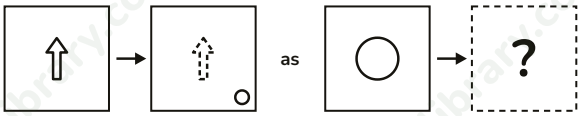


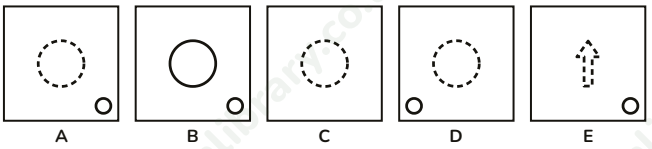
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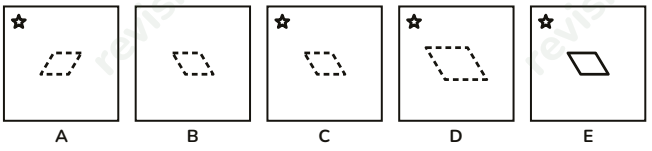
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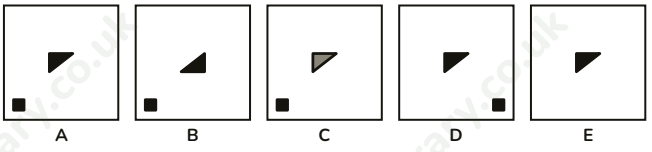
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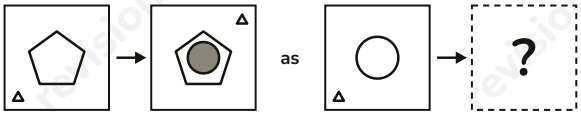


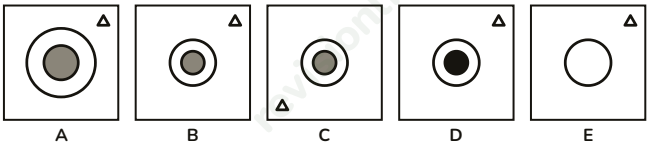
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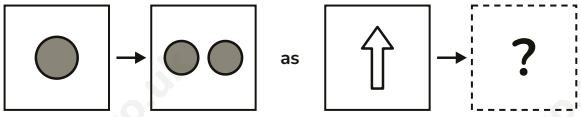


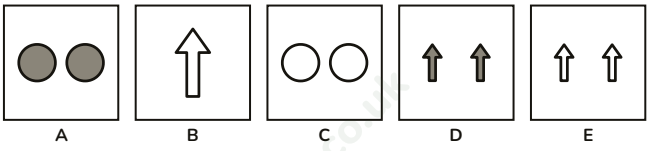
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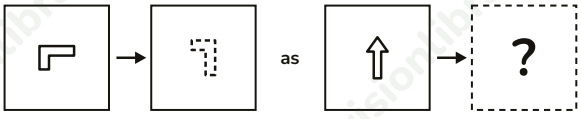


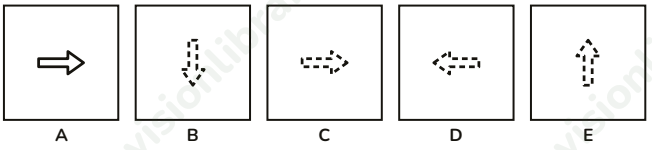
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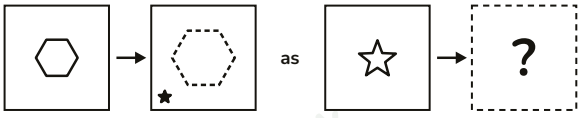


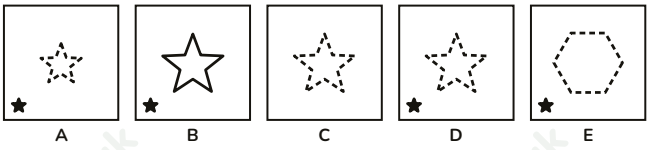
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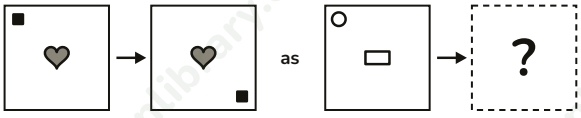


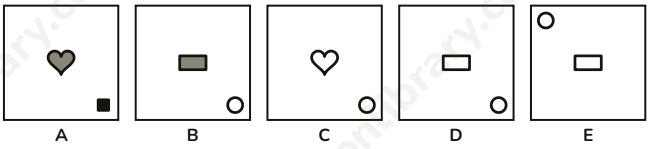
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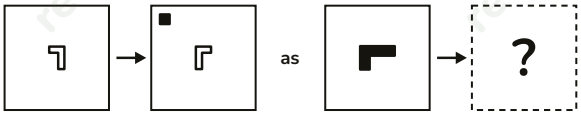


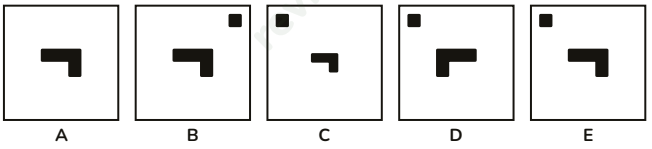
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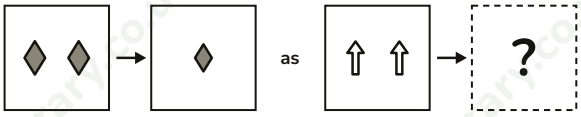


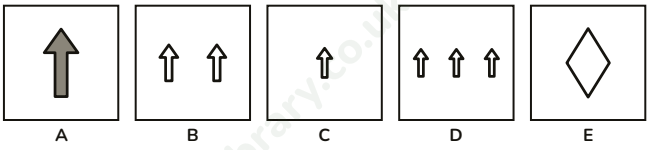
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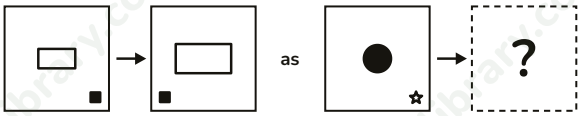
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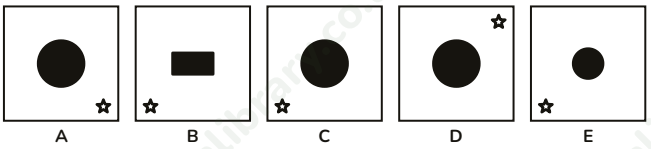




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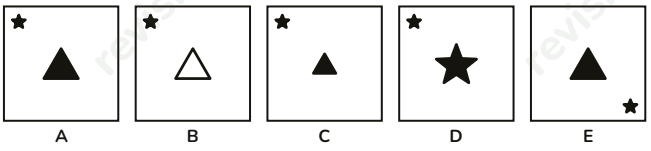
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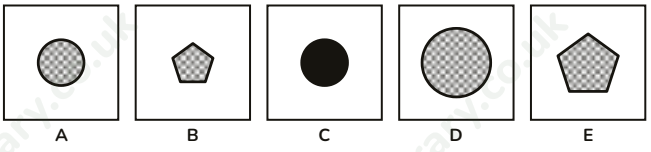
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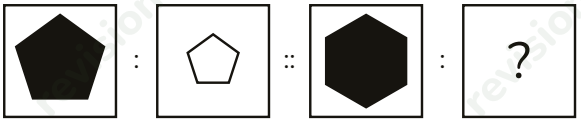


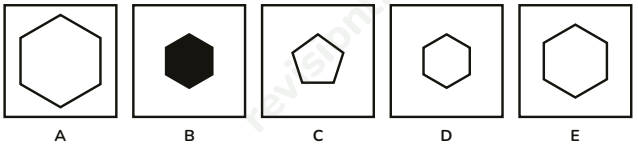
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Mark scheme · 4.4 Analogies: 30-minute Pack

Question 1

selects option D: from Figure 1 to Figure 2, the shape gets one size smaller; the shape is flipped to its mirror image; the small corner shape moves one corner clockwise; the same change to Figure 3 gives A small mid-grey flag (mirrored left to right) and a small unshaded (white) circle in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: D) A small mid-grey flag (mirrored left to right) and a small unshaded (white) circle in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 2

selects option C: from Figure 1 to Figure 2, the shape is turned 180 degrees clockwise; a small square appears in the bottom-right corner; the same change to Figure 3 gives A medium mid-grey semicircle with its curved side facing up and a small unshaded (white) square in the bottom-right (cao) **B1**

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

Question 3

Correct option identified (C oe) - left/right shading swapped, division direction and outer shape unchanged **B1**

Answer: C

Question 4

selects option C: from Figure 1 to Figure 2, a small circle appears in the bottom-right corner; the shape is flipped to its mirror image; the same change to Figure 3 gives A medium solid black parallelogram (mirrored left to right, then turned 270 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 solid black parallelogram (mirrored left to right, then turned 270 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 5

selects option A: 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) right-angled triangle (mirrored left to right, then turned 90 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: A) A large unshaded (white) right-angled triangle (mirrored left to right, then turned 90 degrees clockwise), dashed outline (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 6

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 stars with one point facing up side by side in a row (cao) **B1**

Answer: B) Two small solid black stars with one point facing up side by side in a row

Question 7

selects option E: from Figure 1 to Figure 2, the outline becomes dashed; the shape is turned 45 degrees clockwise; a small circle appears in the top-right corner; the same change to Figure 3 gives A medium unshaded (white) right-angled triangle (turned 315 degrees clockwise), dashed outline and a small unshaded (white) circle 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: E) A medium unshaded (white) right-angled triangle (turned 315 degrees clockwise), dashed outline and a small unshaded (white) circle in the top-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 8

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

Answer: A) A medium unshaded (white) circle, dashed outline and a small unshaded (white) circle in the bottom-right

Question 9

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

Answer: C) A medium unshaded (white) parallelogram (mirrored left to right, then turned 180 degrees clockwise), dashed outline and a small unshaded (white) star with one point facing up in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

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Question 10

selects option A: from Figure 1 to Figure 2, a small square appears in the bottom-left corner; the shape is turned 180 degrees clockwise; the same change to Figure 3 gives A small solid black right-angled triangle (turned 90 degrees clockwise) and a small solid black square in the bottom-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: A) A small solid black right-angled triangle (turned 90 degrees clockwise) and a small solid black square in the bottom-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 11

selects option B: from Figure 1 to Figure 2, the small corner shape moves to the opposite corner; a smaller circle appears inside; the same change to Figure 3 gives A medium unshaded (white) circle, with a small mid-grey circle centred inside it and a small unshaded (white) triangle with one point facing up in the top-right (cao) **B1**

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

Question 12

selects option E: from Figure 1 to Figure 2, one more shape is added; the same change to Figure 3 gives Two small unshaded (white) arrows pointing up side by side in a row (cao) **B1**

Answer: E) Two small unshaded (white) arrows pointing up side by side in a row

Question 13

selects option C: 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) arrow pointing right, dashed outline (cao) **B1**

Answer: C) A medium unshaded (white) arrow pointing right, dashed outline

Question 14

selects option D: from Figure 1 to Figure 2, the outline becomes dashed; the shape gets one size larger; 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, dashed outline and a small solid black star with one point facing up in the bottom-left (cao) **B1**

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

Question 15

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

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

Question 16

selects option E: from Figure 1 to Figure 2, a small square 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 L-shape (mirrored left to right, then turned 270 degrees clockwise) and a small solid black 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: E) A medium solid black L-shape (mirrored left to right, then turned 270 degrees clockwise) and a small solid black square in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 17

selects option C: from Figure 1 to Figure 2, one shape is taken away; the same change to Figure 3 gives A small unshaded (white) arrow pointing up (cao) **B1**

Answer: C) A small unshaded (white) arrow pointing up

Question 18

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

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

Question 19

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 same change to Figure 3 gives A medium solid black triangle with one point facing up and a small solid black star with one point facing up in the top-left (cao) **B1**

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

Question 20

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

Answer: A) A medium cross-hatched circle

Question 21

Correct option identified (D oe) - both size reduced to small and shading changed to unshaded **B1**

Answer: D

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