4.6 Reflection and Mirror Images: 10-minute Pack

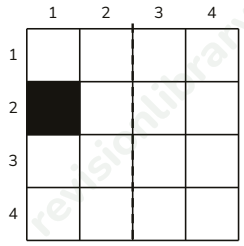
Total Marks

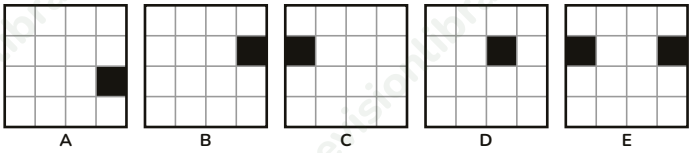
GL ASSESSMENT GL-EP.N8 · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

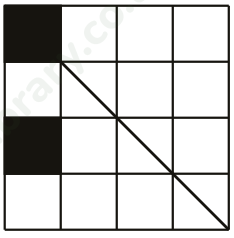
Answer ALL questions. Show all your working.

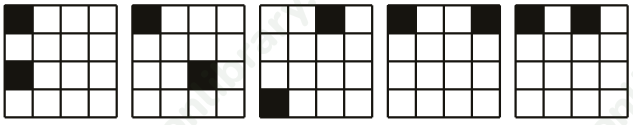
1 Look at the figure and the mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?



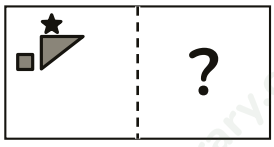


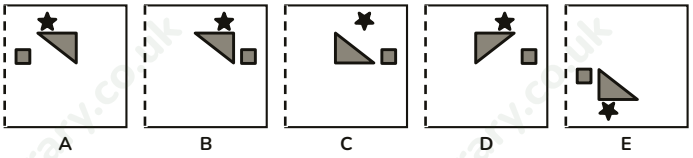
2 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?



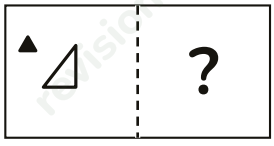


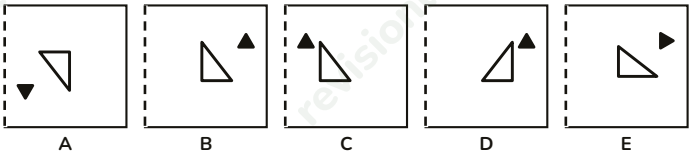
3 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



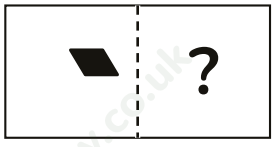


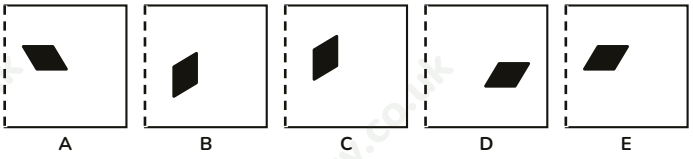
4





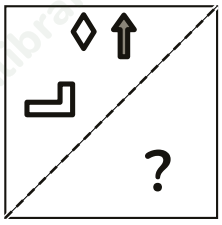
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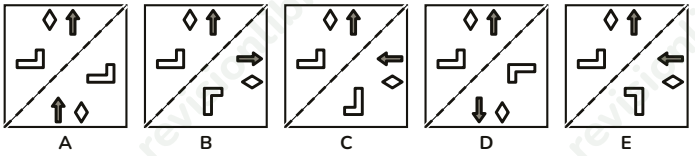




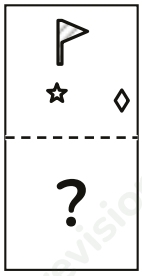
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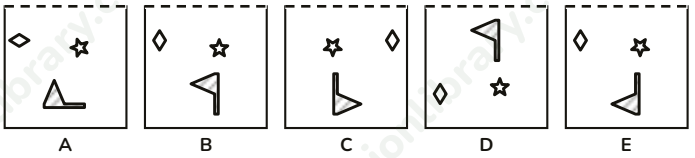
6 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.





7 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





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Mark scheme · 4.6 Reflection and Mirror Images: 10-minute Pack

Question 1

Correct option identified (B oe, cao) - the single shaded cell reflects across the vertical line to the column the same distance on the other side, row unchanged **B1**

Answer: B

Question 2

Correct option identified (E oe, cao) - the cell on the mirror line stays exactly where it is, and the other cell has its row and column numbers swapped **B1**

Answer: E

Question 3

selects option B: the image is the figure mirrored in the vertical line, with every shape the same distance from the line on the other side and flipped, giving A medium mid-grey right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the top-right, a small mid-grey square in the top-right and a small solid black 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: B) A medium mid-grey right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the top-right, a small mid-grey square in the top-right and a small solid black 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 4

selects option B: the image is the figure mirrored in the vertical line, with every shape the same distance from the line on the other side and flipped, giving A medium unshaded (white) right-angled triangle in the right part and a small solid black triangle 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: B) A medium unshaded (white) right-angled triangle in the right part and a small solid black triangle 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 5

selects option E: the image is the figure mirrored in the vertical line, with every shape the same distance from the line on the other side and flipped, giving A medium solid black parallelogram in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: E) A medium solid black parallelogram in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 6

selects option B: the image is the figure mirrored in the diagonal line, with every shape the same distance from the line on the other side and flipped, giving A small unshaded (white) L-shape (mirrored left to right, then turned 180 degrees clockwise) in the bottom part, a small mid-grey arrow pointing right in the right part and a small unshaded (white) diamond turned 90 degrees in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: B) A small unshaded (white) L-shape (mirrored left to right, then turned 180 degrees clockwise) in the bottom part, a small mid-grey arrow pointing right in the right part and a small unshaded (white) diamond turned 90 degrees in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 7

selects option C: the image is the figure mirrored in the horizontal line, with every shape the same distance from the line on the other side and flipped, giving A medium diagonally hatched flag (mirrored left to right, then turned 180 degrees clockwise) in the bottom part, a small unshaded (white) star with one point facing down in the top-left and a small unshaded (white) diamond in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: C) A medium diagonally hatched flag (mirrored left to right, then turned 180 degrees clockwise) in the bottom part, a small unshaded (white) star with one point facing down in the top-left and a small unshaded (white) diamond in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top)

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