4.6 Reflection and Mirror Images: 2-hour Pack

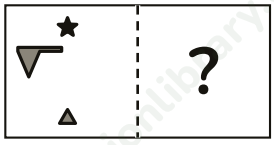
GL ASSESSMENT GL-EP.N8 · Calculators not allowed · about 120 minutes

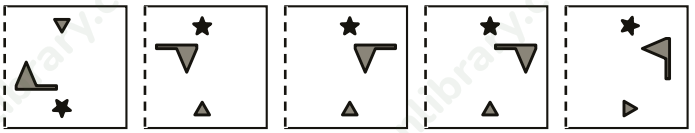
Total Marks

Name: _____ Date: ____ / ____ / _____

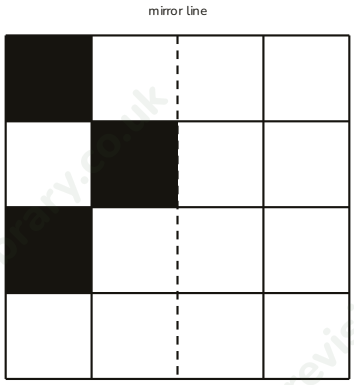
Answer ALL questions. Show all your working.

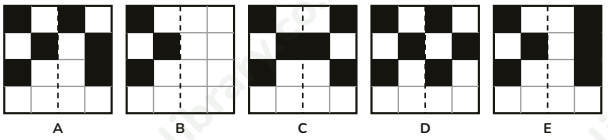
1 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



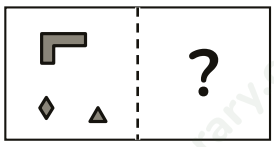


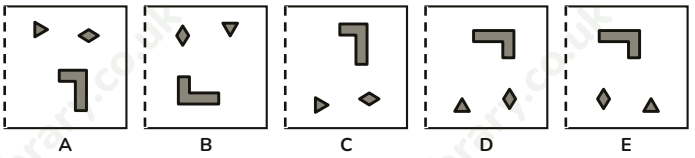
2 The figure below is symmetrical about the vertical mirror line, but only its left half is shown. Which option (A to E) correctly shows the missing right half?



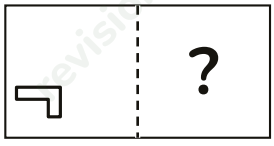


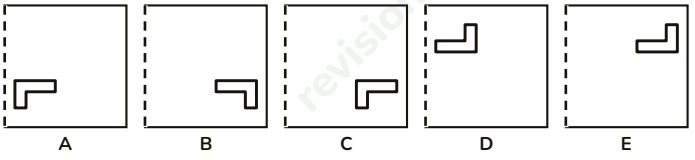
3 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





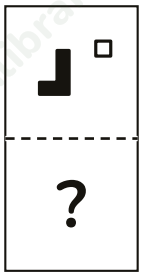
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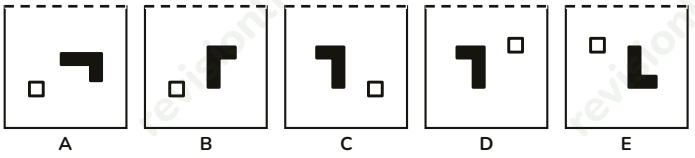




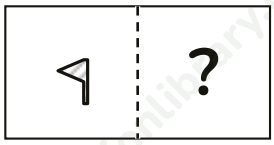
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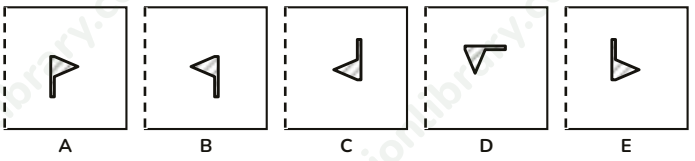
5 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



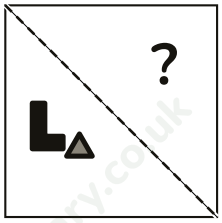


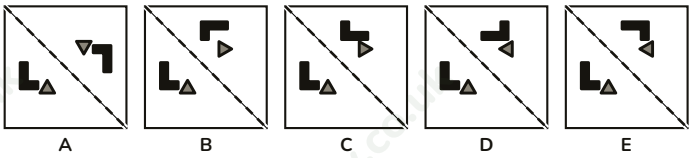
6 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



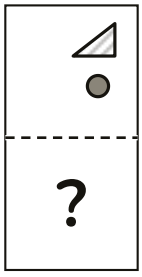


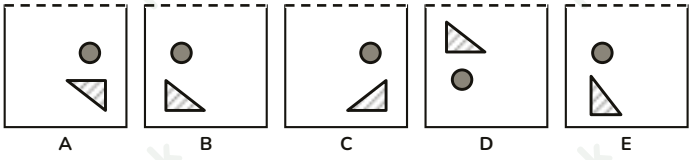
7 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



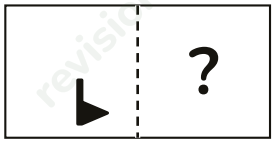


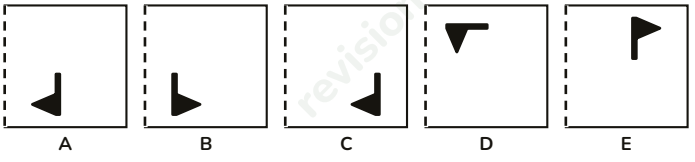
8 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





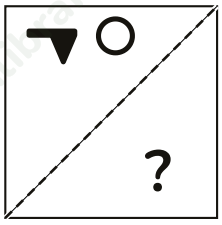
9 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.

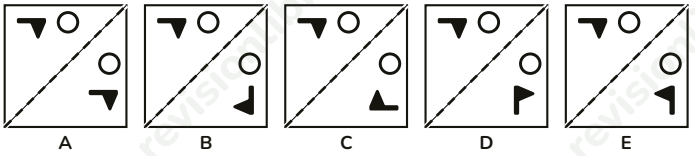




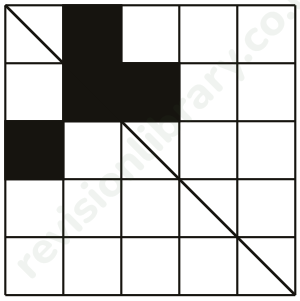
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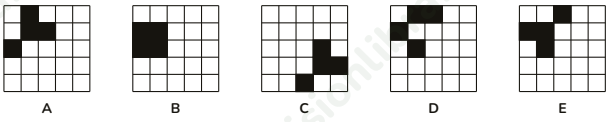
10 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



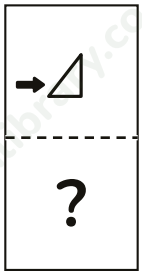


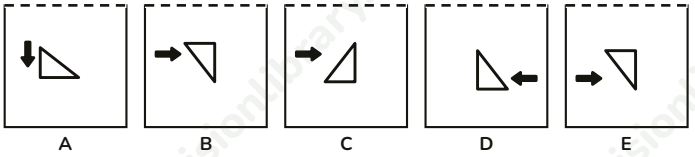
11 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?



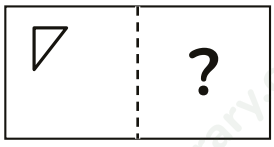


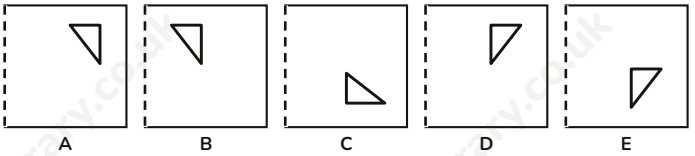
12 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



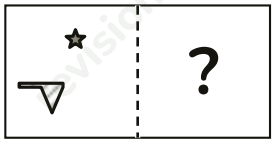


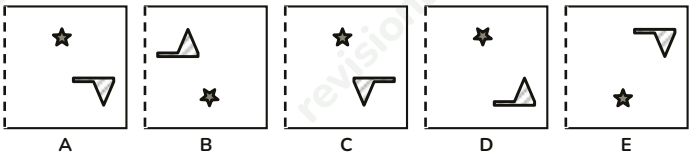
13 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





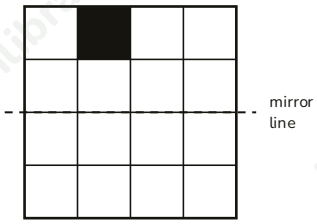
14

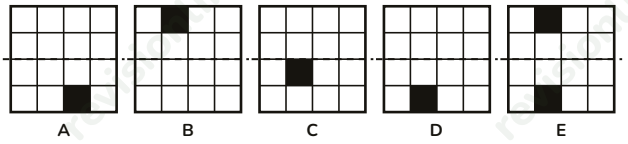




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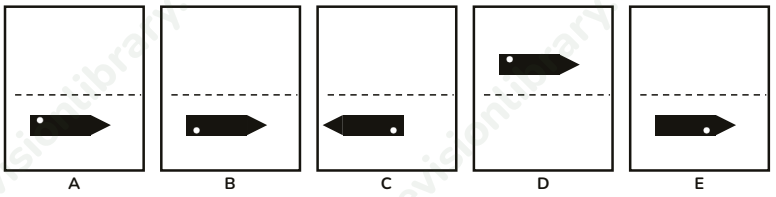
15 Look at the figure and the mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?



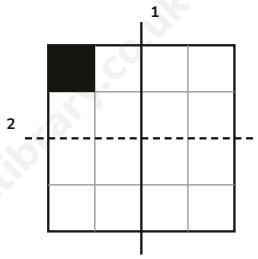


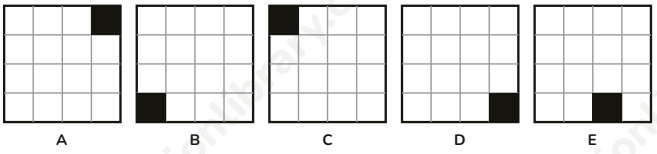
16 A black arrow with a punched hole lies above a horizontal mirror line. Which option (A to E) shows the correct reflection of the arrow in the mirror line?



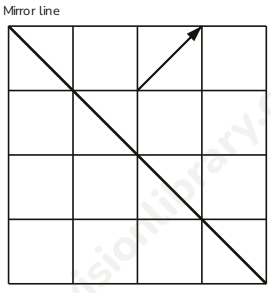


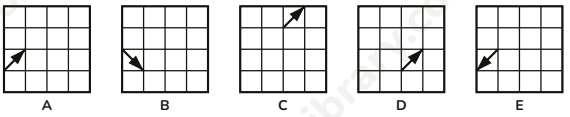
17 The black cell shown below is first reflected in mirror line 1 (vertical, solid), and the resulting figure is then reflected in mirror line 2 (horizontal, dashed) to give a final figure. Which option (A to E) shows the final figure?





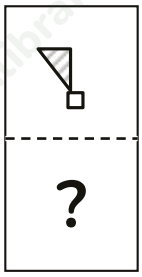
18 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?

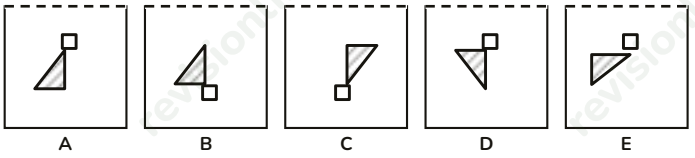




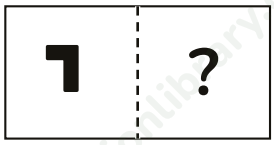
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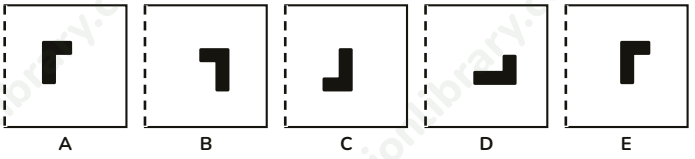
19 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



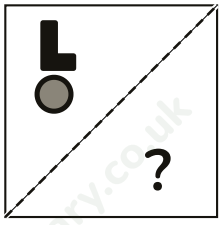


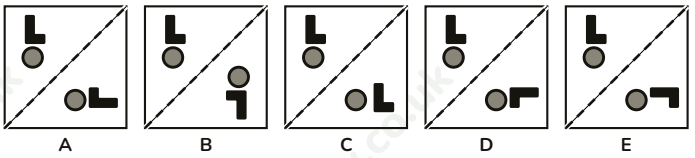
20 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



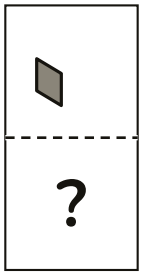


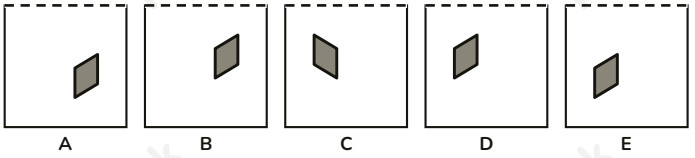
21 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



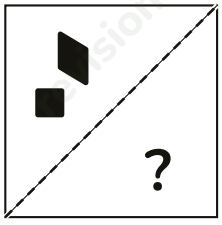


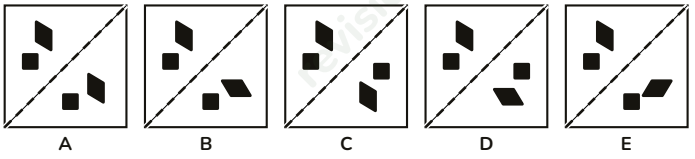
22 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





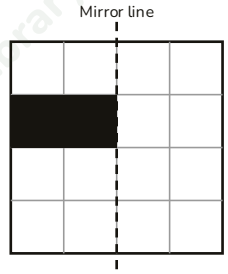
23 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.

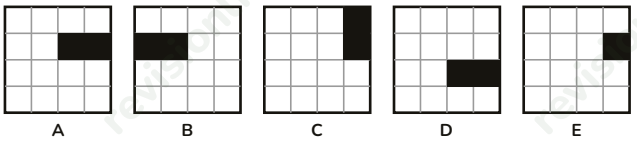




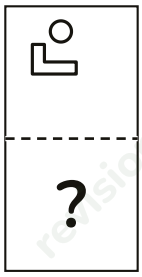
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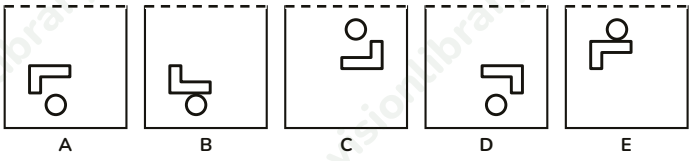
24 Look at the figure and the mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?



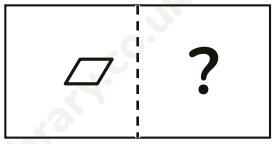


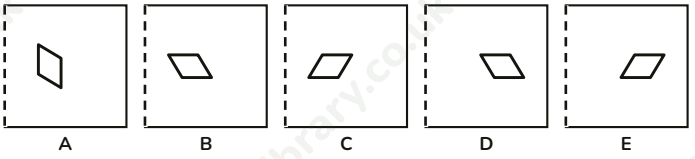
25 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



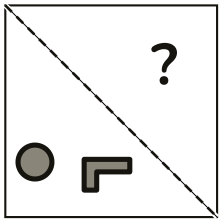


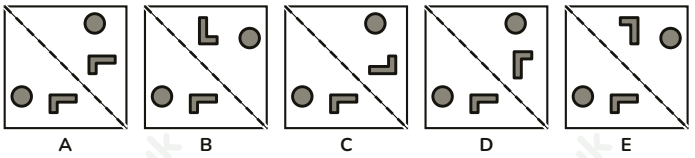
26 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



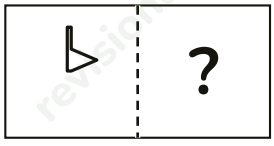


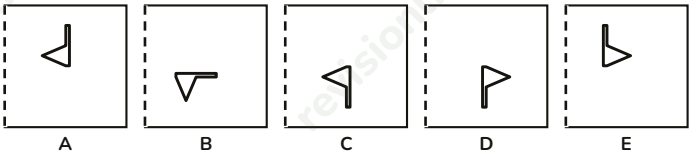
27 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.





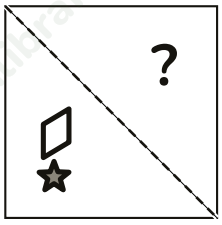
28 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.

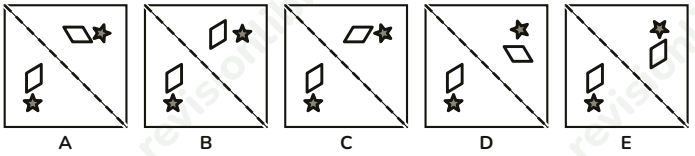




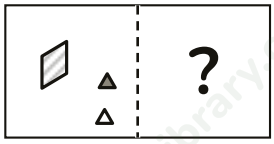
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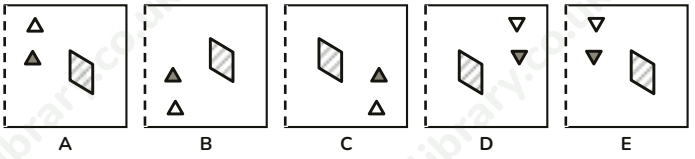
29 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



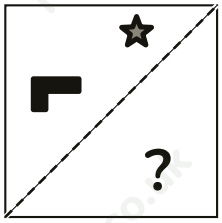


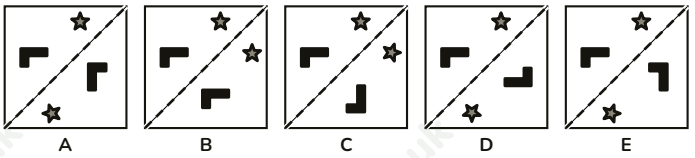
30 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



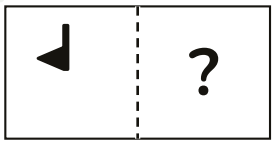


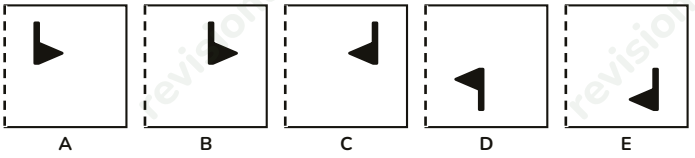
31 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



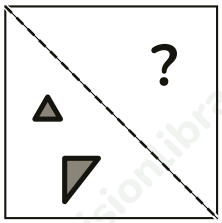


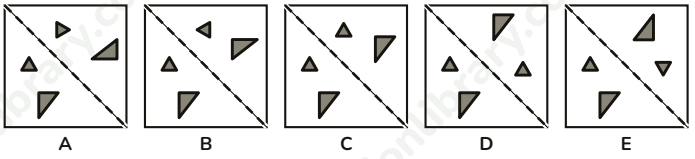
32 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



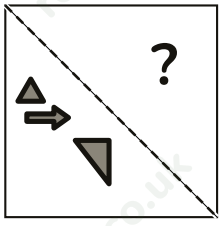


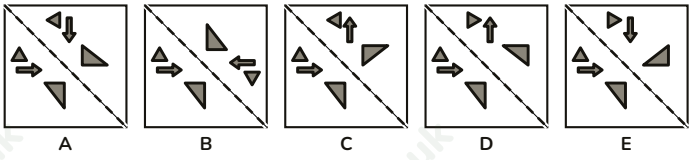
33 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.





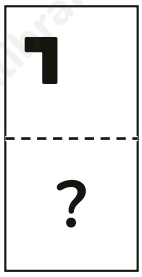
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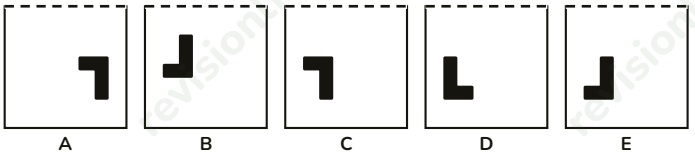




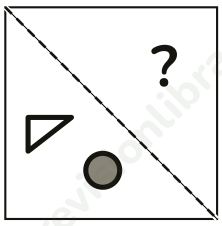
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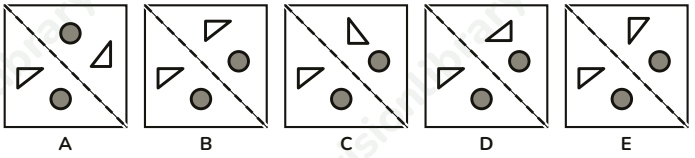
35 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



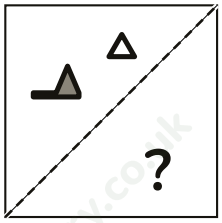


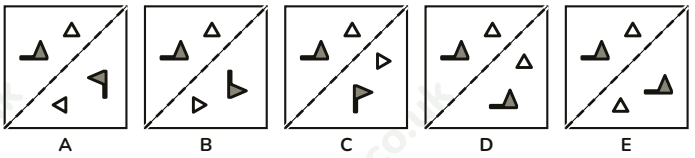
36 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



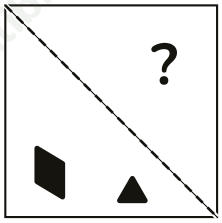


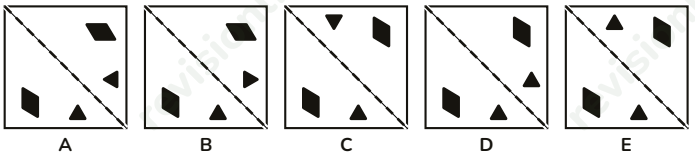
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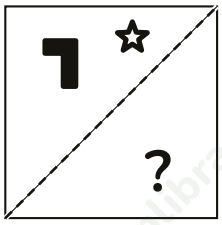


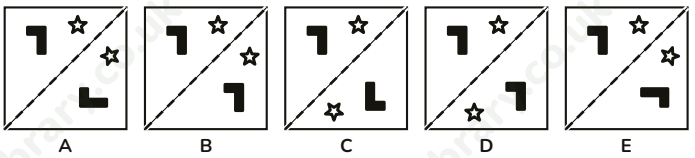
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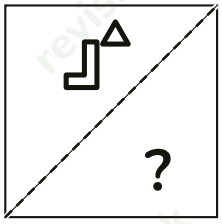


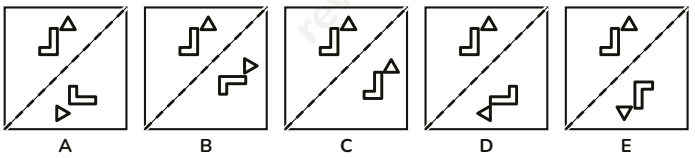
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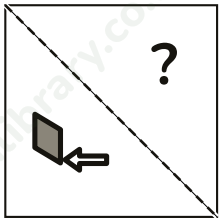
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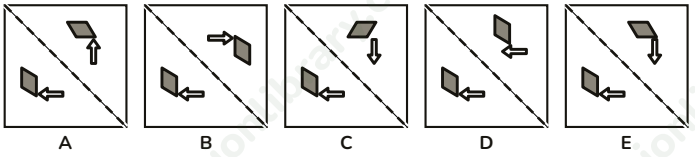




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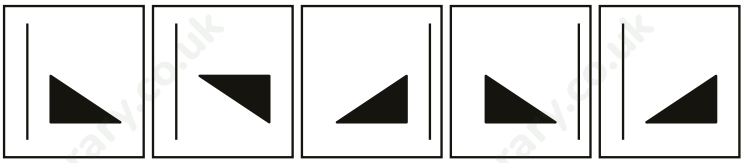
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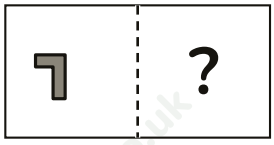


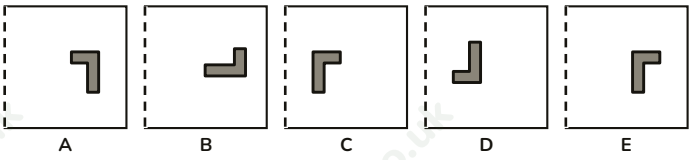
42 A black right-angled triangle stands next to a vertical mirror line. Which option (A to E) shows the correct reflection of the triangle in the mirror line?



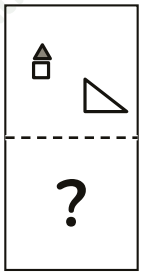


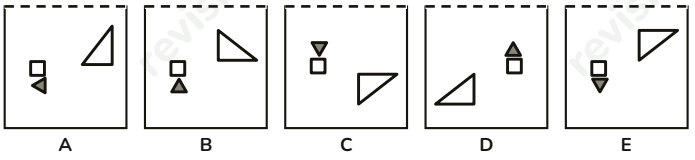
43 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



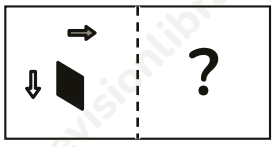


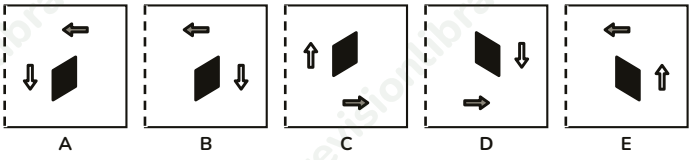
44 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



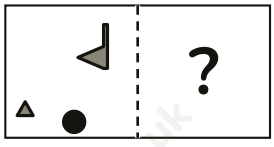


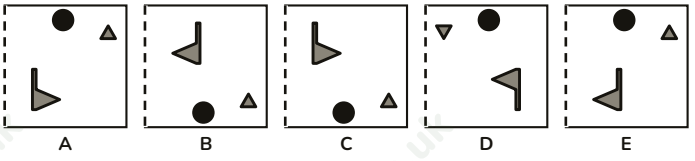
45 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





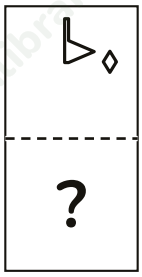
46

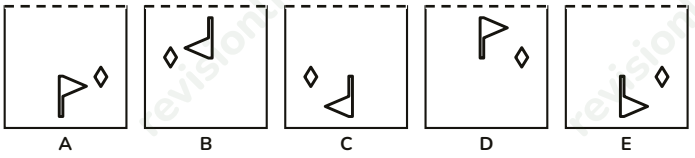




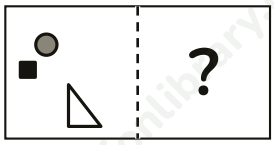
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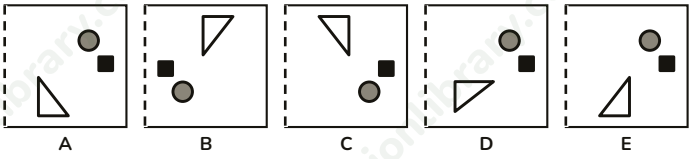
47 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



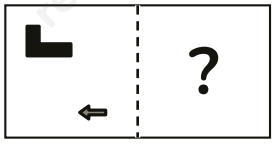


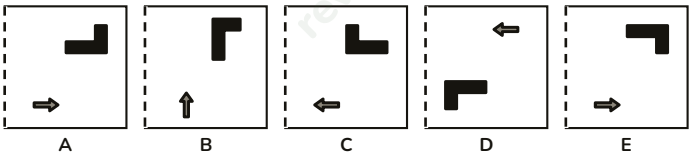
48 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



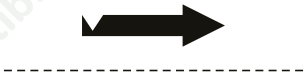


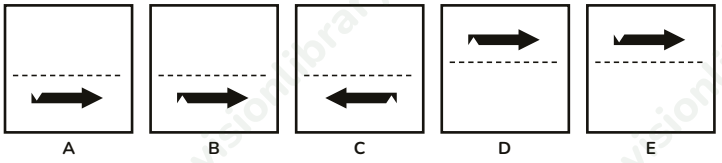
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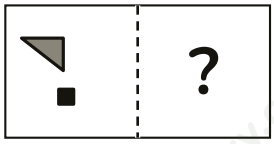


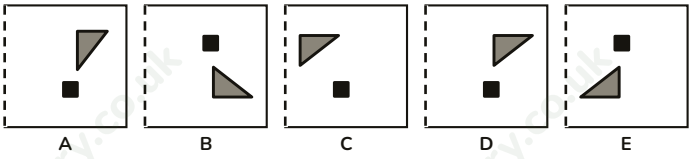
50 A black arrow lies above a horizontal mirror line. Which option (A to E) shows the correct reflection of the arrow in the mirror line?



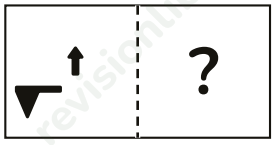


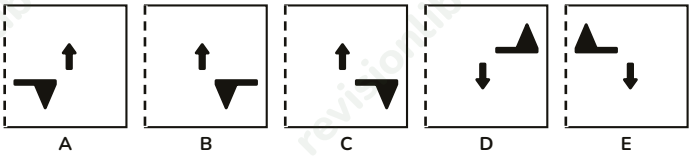
51 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



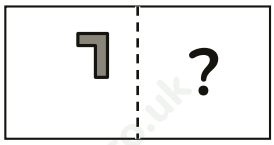


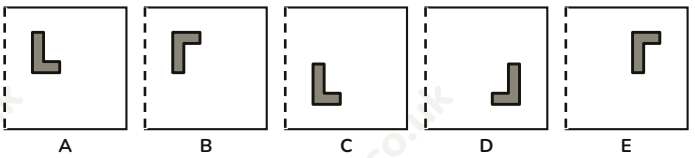
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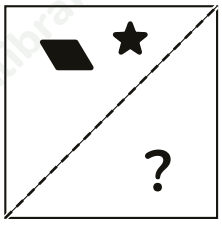
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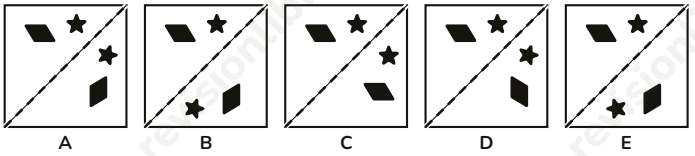




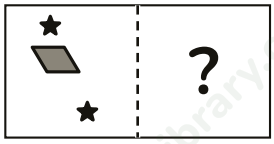
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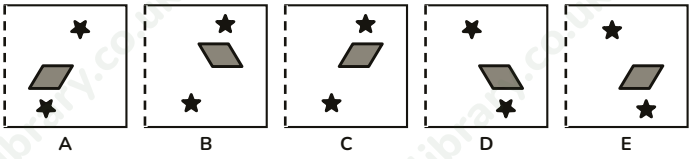
54 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



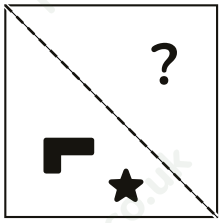


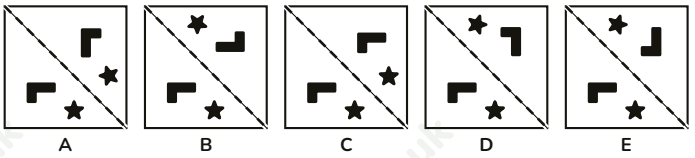
55 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



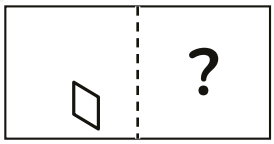


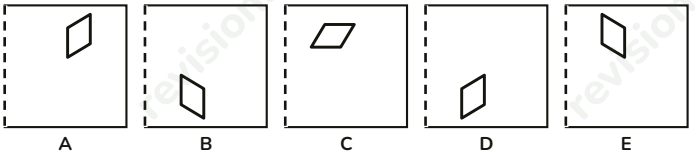
56 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



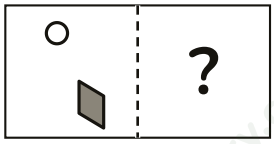


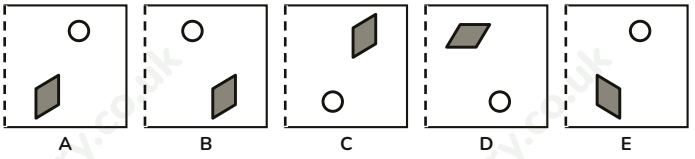
57 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





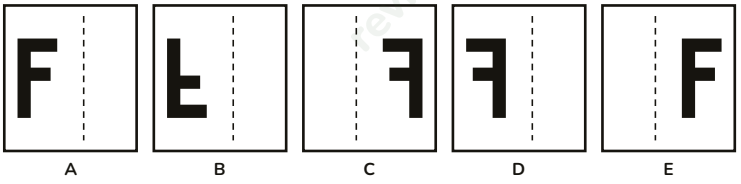
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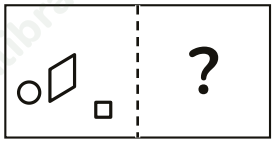
59 A black block letter F stands next to a vertical mirror line. Which option (A to E) shows the correct reflection of the letter in the mirror line?

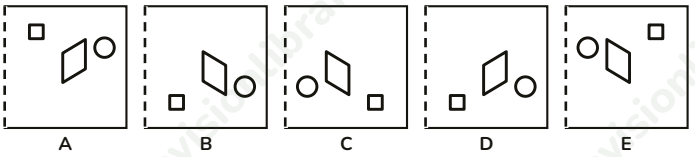




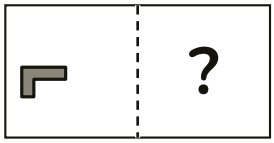
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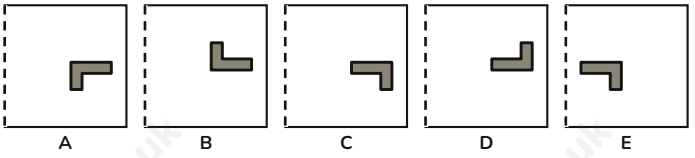
60 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



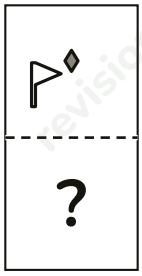


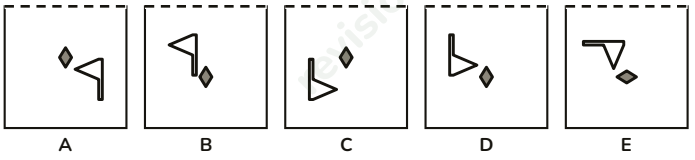
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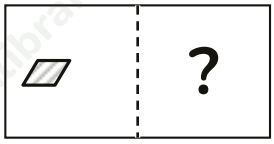


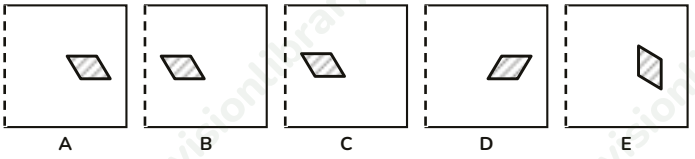
62 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



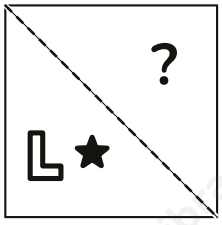


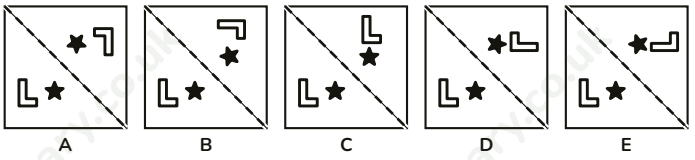
63 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



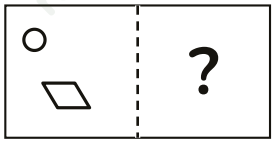


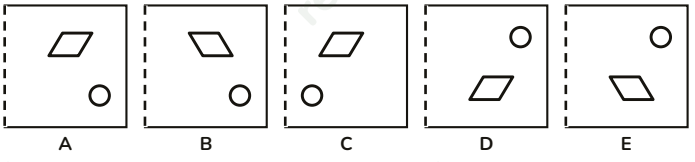
64 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.





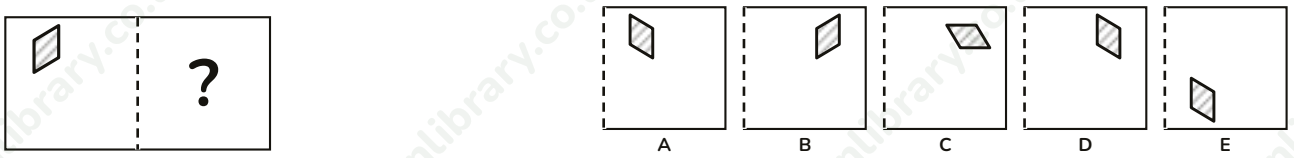
65 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



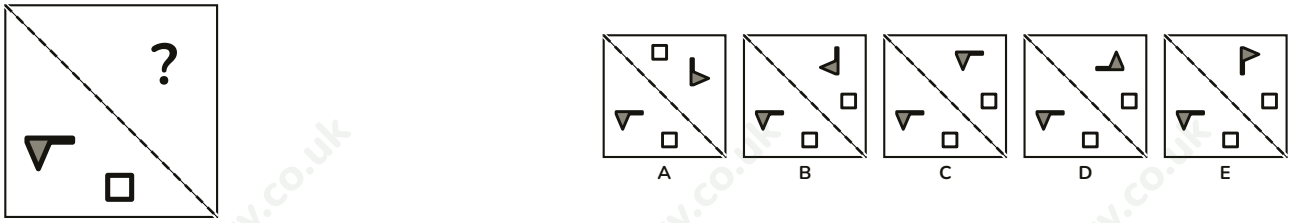


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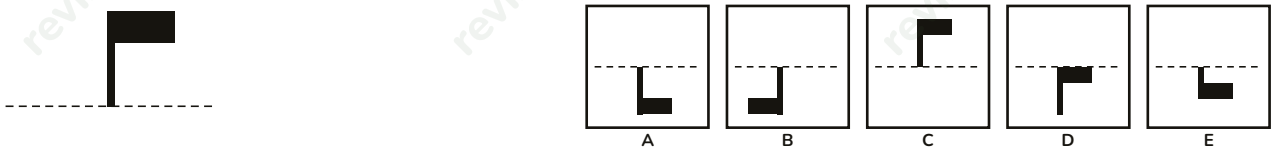
66



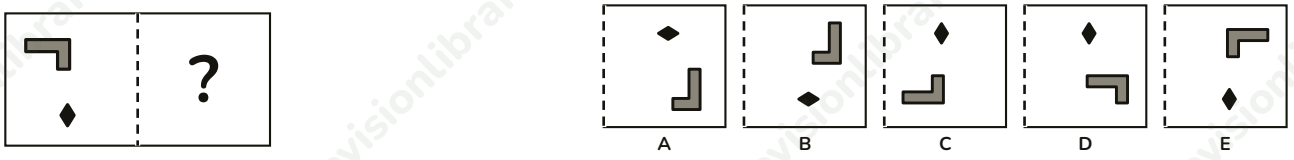
67 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



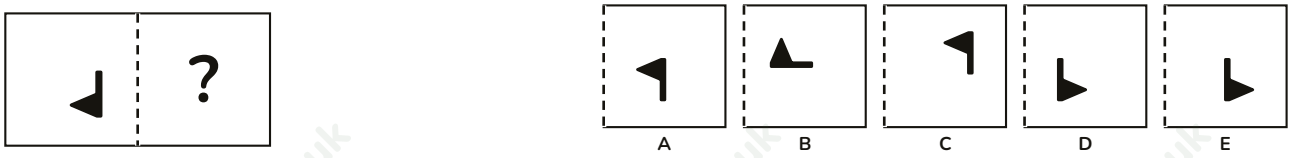
68 A black flag on a pole stands with its base on a horizontal mirror line. Which option (A to E) shows the correct reflection of the flag and pole in the mirror line?



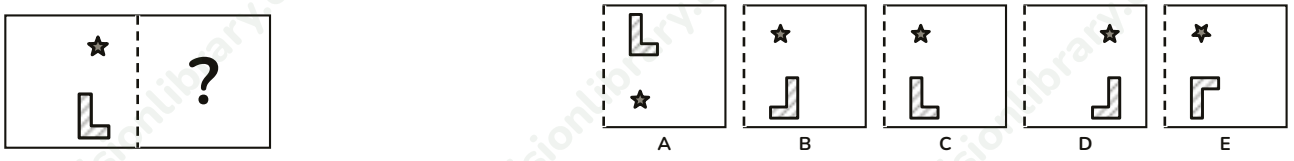
69 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



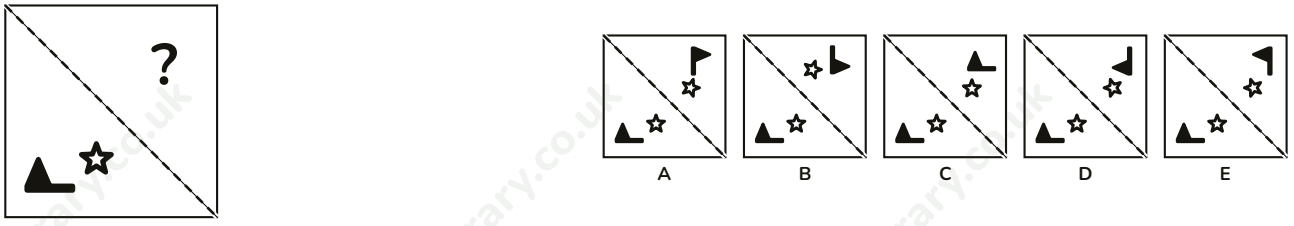
70



71

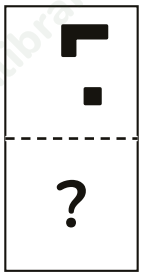


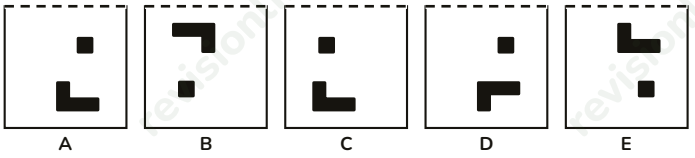
72 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



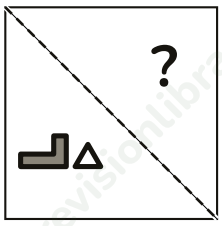
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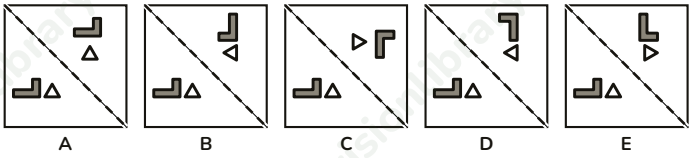
73 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



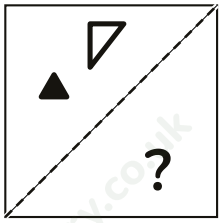


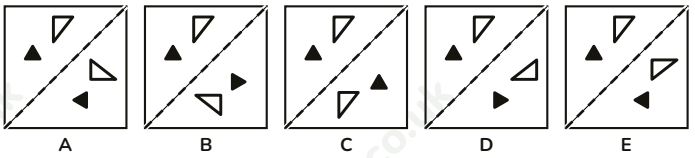
74 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



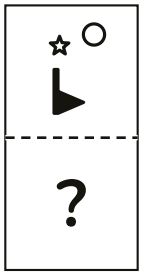


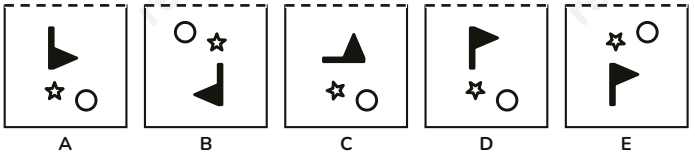
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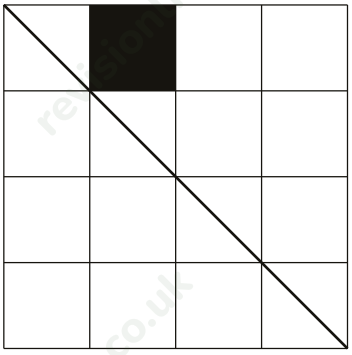


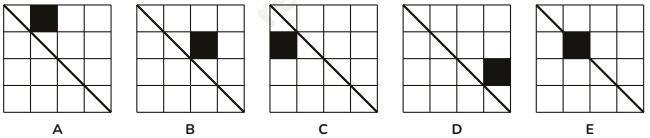
76 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





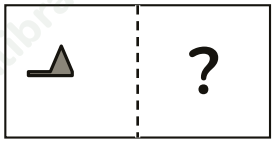
77 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?

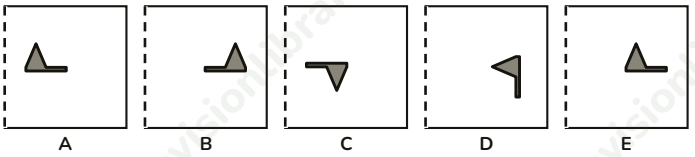




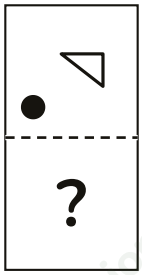
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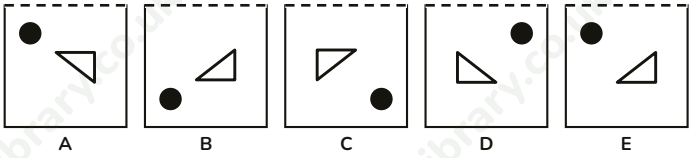
78 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



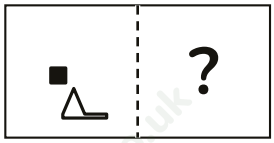


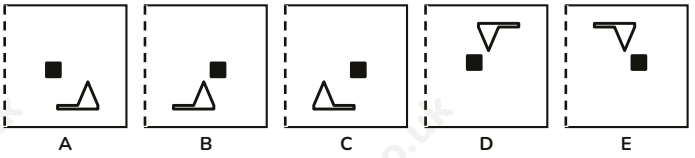
79 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



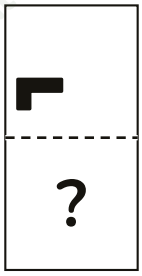


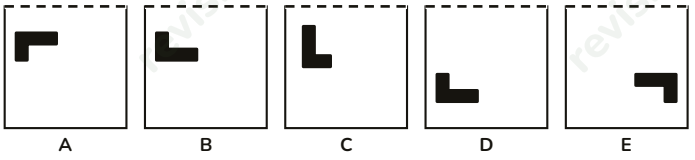
80 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



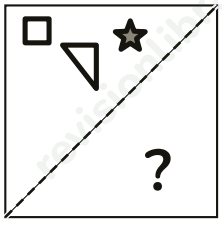


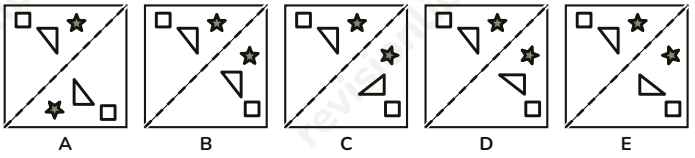
81 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





82 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.





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Mark scheme · 4.6 Reflection and Mirror Images: 2-hour Pack

Question 1

selects option D: 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 flag (turned 90 degrees clockwise) in the top-right, a small solid black star with one point facing up in the top part and a small mid-grey triangle with one point facing up in the bottom part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: D) A medium mid-grey flag (turned 90 degrees clockwise) in the top-right, a small solid black star with one point facing up in the top part and a small mid-grey triangle with one point facing up in the bottom part (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 2

Correct option identified (C oe, cao) - each shaded cell in the left half reflects across the vertical line to the column the same distance on the other side, rows unchanged **B1**

Answer: C

Question 3

selects option D: 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 L-shape (mirrored left to right, then turned 270 degrees clockwise) in the top part, a small mid-grey diamond in the bottom-right and a small mid-grey triangle with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: D) A medium mid-grey L-shape (mirrored left to right, then turned 270 degrees clockwise) in the top part, a small mid-grey diamond in the bottom-right and a small mid-grey triangle with one point facing up in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 4

selects option C: 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) L-shape (turned 90 degrees clockwise) in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: C) A medium unshaded (white) L-shape (turned 90 degrees clockwise) in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 5

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 solid black L-shape (turned 180 degrees clockwise) in the left part and a small unshaded (white) square in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: C) A medium solid black L-shape (turned 180 degrees clockwise) in the left part and a small unshaded (white) square in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 6

selects option A: 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 diagonally hatched flag in the bottom part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: A) A medium diagonally hatched flag in the bottom part (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 7

selects option E: 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 solid black L-shape (mirrored left to right, then turned 270 degrees clockwise) in the top-right and a small mid-grey triangle with one point facing left in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

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

Question 8

selects option A: 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 right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right and a small mid-grey 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: A) A medium diagonally hatched right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right and a small mid-grey circle in the top-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

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Question 9

selects option A: 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 flag (turned 180 degrees clockwise) in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: A) A medium solid black flag (turned 180 degrees clockwise) in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 10

selects option E: 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 solid black flag (mirrored left to right) in the bottom-right and a small unshaded (white) circle in the right part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

Question 11

Correct option identified (E oe, cao) - every shaded cell reflects across the leading diagonal by swapping its row and column numbers **B1**

Answer: E

Question 12

selects option B: 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 unshaded (white) right-angled triangle (turned 180 degrees clockwise) and a small solid black arrow pointing right in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: B) A medium unshaded (white) right-angled triangle (turned 180 degrees clockwise) and a small solid black arrow pointing right in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 13

selects option A: 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 (turned 180 degrees clockwise) 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 medium unshaded (white) right-angled triangle (turned 180 degrees clockwise) in the top-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 14

selects option C: 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 diagonally hatched flag (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right and a small mid-grey star with one point facing up in the top part (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 270 degrees clockwise) in the bottom-right and a small mid-grey star with one point facing up in the top part (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 15

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

Answer: D

Question 16

Correct option identified (B oe, cao) - the whole arrow flips to the opposite side of the horizontal line, keeping the same left-right direction and distance from the left end, but the hole's position within the shaft (top edge to bottom edge) flips because that is an up-down feature **B1**

Answer: B

Question 17

Correct option identified (D oe, cao) - applying the vertical reflection and then the horizontal reflection in turn moves the cell diagonally to the opposite corner of the grid **B1**

Answer: D

Question 18

Correct option identified (E oe, cao) - the cell reflects across the leading diagonal by swapping its row and column, and since the arrow inside it runs perpendicular to the mirror line, its line keeps the same bottom-left-to-top-right orientation but its direction reverses, so the arrowhead moves to the bottom-left end **B1**

Answer: E

Question 19

selects option A: 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 right-angled triangle (mirrored left to right) in the left part and a small unshaded (white) square in the top part (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: A) A medium diagonally hatched right-angled triangle (mirrored left to right) in the left part and a small unshaded (white) square in the top part (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

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Question 20

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 L-shape (mirrored left to right, then turned 180 degrees clockwise) in the right part (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 180 degrees clockwise) in the right part (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 21

selects option A: 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 solid black L-shape (mirrored left to right, then turned 90 degrees clockwise) in the bottom-right and a small mid-grey 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: A) A small solid black L-shape (mirrored left to right, then turned 90 degrees clockwise) in the bottom-right and a small mid-grey circle in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 22

selects option D: 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 mid-grey parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: D) A medium mid-grey parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 23

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 solid black parallelogram (mirrored left to right) in the bottom-right and a small solid black square in the bottom part (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) in the bottom-right and a small solid black square in the bottom part (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 24

Correct option identified (A oe, cao) - both cells of the domino reflect across the vertical line to the columns the same distance on the other side, rows unchanged **B1**

Answer: A

Question 25

selects option A: 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 unshaded (white) L-shape (turned 90 degrees clockwise) in the bottom-left and a small unshaded (white) circle in the bottom-left (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 90 degrees clockwise) in the bottom-left and a small unshaded (white) circle in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 26

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) parallelogram (mirrored left to right) in the left part (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: B) A medium unshaded (white) parallelogram (mirrored left to right) in the left part (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 27

selects option D: 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 mid-grey L-shape (mirrored left to right, then turned 180 degrees clockwise) in the right part and a small mid-grey circle in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

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

Question 28

selects option A: 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) flag (turned 180 degrees clockwise) in the top-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: A) A medium unshaded (white) flag (turned 180 degrees clockwise) in the top-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 29

selects option C: 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) parallelogram in the top-right and a small mid-grey star with one point facing left in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: C) A small unshaded (white) parallelogram in the top-right and a small mid-grey star with one point facing left in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

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Question 30

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 diagonally hatched parallelogram (turned 270 degrees clockwise) in the right part, a small unshaded (white) triangle with one point facing up in the bottom-left and a small mid-grey 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: B) A medium diagonally hatched parallelogram (turned 270 degrees clockwise) in the right part, a small unshaded (white) triangle with one point facing up in the bottom-left and a small mid-grey triangle with one point facing up in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 31

selects option C: 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 solid black L-shape (mirrored left to right) in the bottom-right and a small mid-grey star with one point facing right in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: C) A small solid black L-shape (mirrored left to right) in the bottom-right and a small mid-grey star with one point facing right in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 32

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

Question 33

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 mid-grey right-angled triangle (turned 90 degrees clockwise) in the top-right and a small mid-grey triangle with one point facing left in the top part (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: B) A small mid-grey right-angled triangle (turned 90 degrees clockwise) in the top-right and a small mid-grey triangle with one point facing left in the top part (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 34

selects option A: 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 mid-grey right-angled triangle (mirrored left to right, then turned 90 degrees clockwise) in the top-right, a small mid-grey arrow pointing down in the top part and a small mid-grey triangle with one point facing left in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: A) A small mid-grey right-angled triangle (mirrored left to right, then turned 90 degrees clockwise) in the top-right, a small mid-grey arrow pointing down in the top part and a small mid-grey triangle with one point facing left in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 35

selects option E: 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 solid black L-shape (mirrored left to right) 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 medium solid black L-shape (mirrored left to right) in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 36

selects option E: 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) right-angled triangle (mirrored left to right, then turned 180 degrees clockwise) in the top-right and a small mid-grey circle in the right part (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

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

Question 37

selects option C: 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 mid-grey flag in the bottom-right and a small unshaded (white) triangle with one point facing right in the right part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: C) A small mid-grey flag in the bottom-right and a small unshaded (white) triangle with one point facing right in the right part (upright, the flag has its pole on the left, pennant pointing right from the top)

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Question 38

selects option A: 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 solid black parallelogram (mirrored left to right) in the top-right and a small solid black triangle with one point facing left in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

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

Question 39

selects option E: 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 solid black L-shape (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right and a small unshaded (white) star with one point facing right in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

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

Question 40

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 (turned 90 degrees clockwise) in the bottom-right and a small unshaded (white) triangle with one point facing right in the right part (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 (turned 90 degrees clockwise) in the bottom-right and a small unshaded (white) triangle with one point facing right in the right part (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 41

selects option A: 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 mid-grey parallelogram (mirrored left to right) in the top-right and a small unshaded (white) arrow pointing up in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: A) A small mid-grey parallelogram (mirrored left to right) in the top-right and a small unshaded (white) arrow pointing up in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 42

Correct option identified (E oe, cao) - the triangle is flipped left-right (right angle moves from the left end of the base to the right end) and its distance from the line is preserved on the opposite side **B1**

Answer: E

Question 43

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 mid-grey L-shape (mirrored left to right, then turned 180 degrees clockwise) in the right part (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: E) A medium mid-grey L-shape (mirrored left to right, then turned 180 degrees clockwise) in the right part (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 44

selects option E: 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 unshaded (white) right-angled triangle (turned 90 degrees clockwise) in the top-right, a small unshaded (white) square in the left part and a small mid-grey triangle with one point facing down 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: E) A medium unshaded (white) right-angled triangle (turned 90 degrees clockwise) in the top-right, a small unshaded (white) square in the left part and a small mid-grey triangle with one point facing down in the bottom-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 45

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 solid black parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the bottom part, a small unshaded (white) arrow pointing down in the bottom-right and a small mid-grey arrow pointing left in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: B) A medium solid black parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the bottom part, a small unshaded (white) arrow pointing down in the bottom-right and a small mid-grey arrow pointing left in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 46

selects option C: 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 flag (mirrored left to right, then turned 180 degrees clockwise) in the top-left, a small mid-grey triangle with one point facing up in the bottom-right and a small solid black circle in the bottom part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

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Question 47

selects option A: 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 unshaded (white) flag in the bottom part and a small unshaded (white) diamond in the bottom-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: A) A medium unshaded (white) flag in the bottom part and a small unshaded (white) diamond in the bottom-right (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 48

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 unshaded (white) right-angled triangle (mirrored left to right) in the bottom-left, a small mid-grey circle in the top-right and a small solid black square in the right part (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 (mirrored left to right) in the bottom-left, a small mid-grey circle in the top-right and a small solid black square in the right part (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 49

selects option A: 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 L-shape (turned 270 degrees clockwise) in the top-right and a small mid-grey arrow pointing right in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: A) A medium solid black L-shape (turned 270 degrees clockwise) in the top-right and a small mid-grey arrow pointing right in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 50

Correct option identified (B oe, cao) - the arrow's position flips to the opposite side of the horizontal line and the notch, which is a vertical (up/down) feature, flips from opening upward to opening downward **B1**

Answer: B

Question 51

selects option D: 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 (turned 90 degrees clockwise) in the top-right and a small solid black square in the bottom part (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

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

Question 52

selects option C: 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 flag (turned 90 degrees clockwise) in the bottom-right and a small solid black arrow pointing up in the top part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: C) A medium solid black flag (turned 90 degrees clockwise) in the bottom-right and a small solid black arrow pointing up in the top part (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 53

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 L-shape (mirrored left to right, then turned 180 degrees clockwise) 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, then turned 180 degrees clockwise) in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 54

selects option D: 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 solid black parallelogram (turned 90 degrees clockwise) in the bottom-right and a small solid black star with one point facing right in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: D) A small solid black parallelogram (turned 90 degrees clockwise) in the bottom-right and a small solid black star with one point facing right in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 55

selects option C: 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 parallelogram in the top-right and two small solid black stars with one point facing up arranged in a block (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: C) A medium mid-grey parallelogram in the top-right and two small solid black stars with one point facing up arranged in a block (upright, the parallelogram has its long sides horizontal, slanting up to the right)

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Question 56

selects option A: 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 solid black L-shape (mirrored left to right, then turned 180 degrees clockwise) in the top-right and a small solid black star with one point facing left 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 small solid black L-shape (mirrored left to right, then turned 180 degrees clockwise) in the top-right and a small solid black star with one point facing left in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 57

selects option D: 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) parallelogram (mirrored left to right, then turned 90 degrees clockwise) in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: D) A medium unshaded (white) parallelogram (mirrored left to right, then turned 90 degrees clockwise) in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 58

selects option A: 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 parallelogram (mirrored left to right, then turned 90 degrees clockwise) in the bottom-left and a small unshaded (white) circle in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: A) A medium mid-grey parallelogram (mirrored left to right, then turned 90 degrees clockwise) in the bottom-left and a small unshaded (white) circle in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 59

Correct option identified (D oe, cao) - the letter is flipped left-right into a backwards F and its distance from the line is preserved on the opposite side **B1**

Answer: D

Question 60

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) parallelogram (turned 90 degrees clockwise) in the right part, a small unshaded (white) square in the bottom-left 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: B) A medium unshaded (white) parallelogram (turned 90 degrees clockwise) in the right part, a small unshaded (white) square in the bottom-left and a small unshaded (white) circle in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 61

selects option C: 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 L-shape (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: C) A medium mid-grey L-shape (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 62

selects option D: 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 unshaded (white) flag (mirrored left to right, then turned 180 degrees clockwise) in the top-left and a small mid-grey diamond in the bottom part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

Question 63

selects option A: 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 diagonally hatched parallelogram (mirrored left to right, then turned 180 degrees clockwise) in the right part (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: A) A medium diagonally hatched parallelogram (mirrored left to right, then turned 180 degrees clockwise) in the right part (upright, the parallelogram has its long sides horizontal, slanting up to the right)

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Question 64

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 270 degrees clockwise) in the top-right and a small solid black star with one point facing left in the top-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 270 degrees clockwise) in the top-right and a small solid black star with one point facing left in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 65

selects option D: 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) parallelogram in the bottom part and a small unshaded (white) circle in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: D) A medium unshaded (white) parallelogram in the bottom part and a small unshaded (white) circle in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 66

selects option D: 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 diagonally hatched parallelogram (turned 90 degrees clockwise) in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: D) A medium diagonally hatched parallelogram (turned 90 degrees clockwise) in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 67

selects option E: 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 mid-grey flag in the top-right and a small unshaded (white) square in the right part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: E) A small mid-grey flag in the top-right and a small unshaded (white) square in the right part (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 68

Correct option identified (A oe, cao) - the whole pole-and-flag figure flips to the opposite side of the horizontal line; the flag, attached at the far end of the pole from the line, stays attached at the far end after reflection, and left-right position of the flag is unaffected by a horizontal-line reflection **B1**

Answer: A

Question 69

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 mid-grey L-shape (turned 90 degrees clockwise) in the top-right and a small solid black diamond in the bottom part (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: E) A medium mid-grey L-shape (turned 90 degrees clockwise) in the top-right and a small solid black diamond in the bottom part (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 70

selects option D: 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 flag (mirrored left to right, then turned 180 degrees clockwise) in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

Question 71

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 diagonally hatched L-shape (mirrored left to right) in the bottom-left and a small mid-grey star with one point facing up 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 diagonally hatched L-shape (mirrored left to right) in the bottom-left and a small mid-grey star with one point facing up in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 72

selects option E: 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 solid black flag (mirrored left to right) in the top-right and a small unshaded (white) star with one point facing left in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: E) A small solid black flag (mirrored left to right) in the top-right and a small unshaded (white) star with one point facing left in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top)

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Question 73

selects option A: 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 solid black L-shape (mirrored left to right, then turned 90 degrees clockwise) in the bottom-right and a small solid black square in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

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

Question 74

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 mid-grey L-shape (mirrored left to right) in the top-right and a small unshaded (white) triangle with one point facing left in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: B) A small mid-grey L-shape (mirrored left to right) in the top-right and a small unshaded (white) triangle with one point facing left in the top-right (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 75

selects option D: 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) right-angled triangle (turned 270 degrees clockwise) in the right part and a small solid black triangle with one point facing right 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 small unshaded (white) right-angled triangle (turned 270 degrees clockwise) in the right part and a small solid black triangle with one point facing right in the bottom-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 76

selects option D: 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 solid black flag in the top part, a small unshaded (white) circle in the bottom-right and a small unshaded (white) star with one point facing down in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: D) A medium solid black flag in the top part, a small unshaded (white) circle in the bottom-right and a small unshaded (white) star with one point facing down in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 77

Correct option identified (C oe, cao) - reflecting in the leading diagonal swaps the row and column numbers of the shaded cell **B1**

Answer: C

Question 78

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 mid-grey flag (turned 270 degrees clockwise) in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: E) A medium mid-grey flag (turned 270 degrees clockwise) in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 79

selects option E: 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 unshaded (white) right-angled triangle (turned 270 degrees clockwise) in the right part and a small solid black circle in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: E) A medium unshaded (white) right-angled triangle (turned 270 degrees clockwise) in the right part and a small solid black circle in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 80

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) flag (mirrored left to right, then turned 90 degrees clockwise) in the bottom-left and a small solid black square in the right part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: B) A medium unshaded (white) flag (mirrored left to right, then turned 90 degrees clockwise) in the bottom-left and a small solid black square in the right part (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 81

selects option B: 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 solid black L-shape (mirrored left to right, then turned 90 degrees clockwise) 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 solid black L-shape (mirrored left to right, then turned 90 degrees clockwise) in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

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Question 82

selects option D: 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) right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right, a small mid-grey star with one point facing right in the top-right and a small unshaded (white) square 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 small unshaded (white) right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right, a small mid-grey star with one point facing right in the top-right and a small unshaded (white) square in the bottom-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

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