4.6 Reflection and Mirror Images: Test Pack

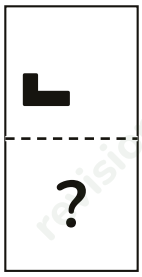
GL ASSESSMENT GL-EP.N8 · Calculators not allowed · about 60 minutes

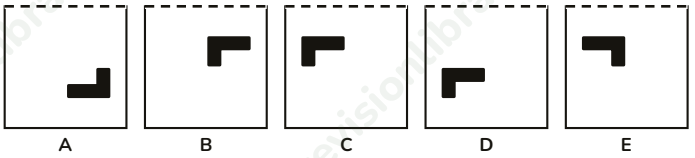
Total Marks

Name: _____ Date: ____ / ____ / _____

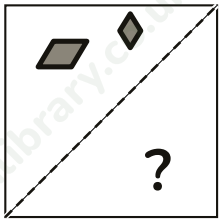
Answer ALL questions. Show all your working.

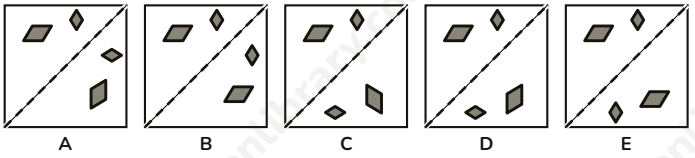
1 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



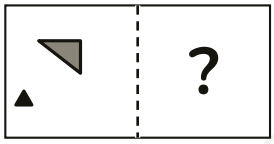


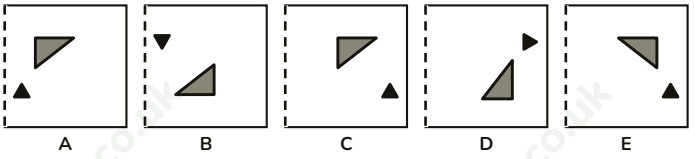
2 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



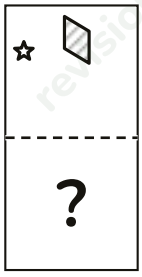


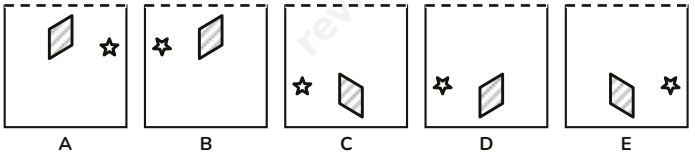
3 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





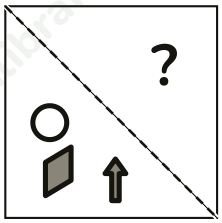
4 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.

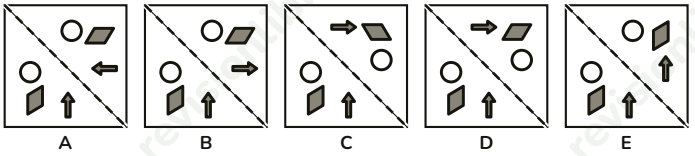




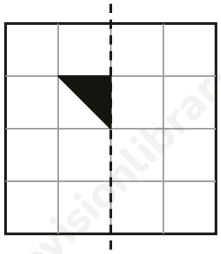
© Revision Library | revisionlibrary.co.uk

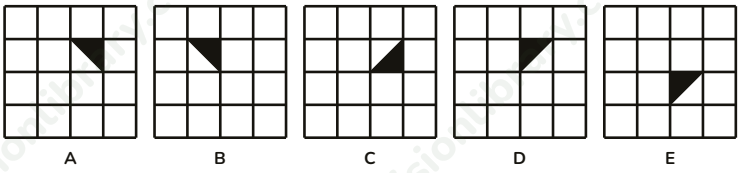
5 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



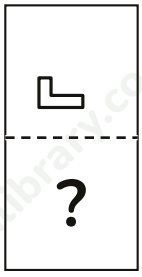


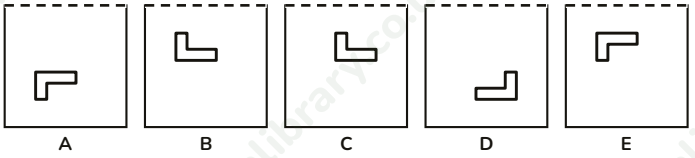
6 Look at the figure and the mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?



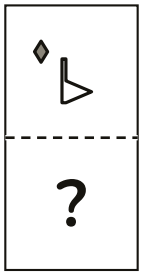


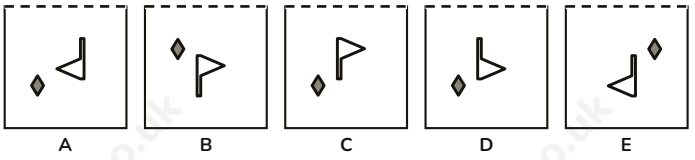
7 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



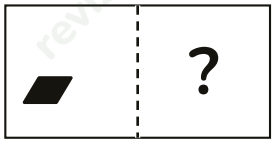


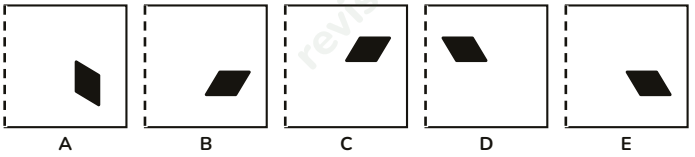
8



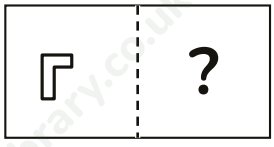


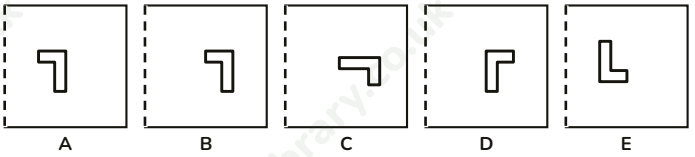
9 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





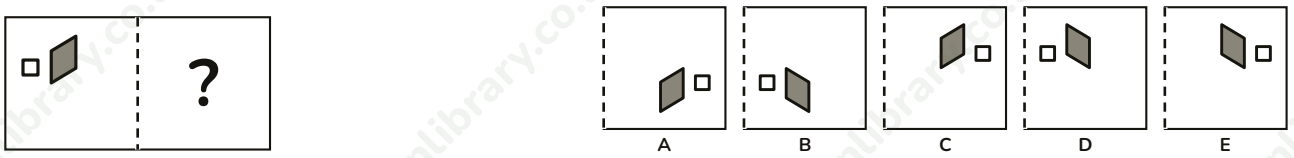
10



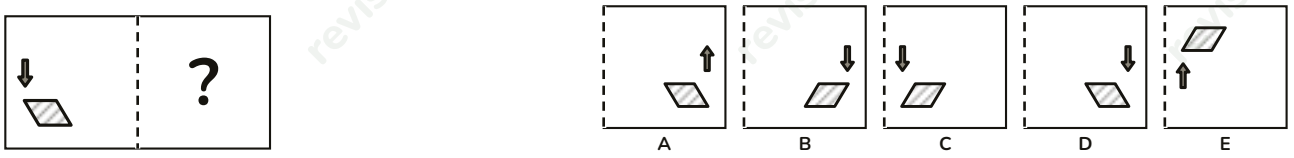


© Revision Library | revisionlibrary.co.uk

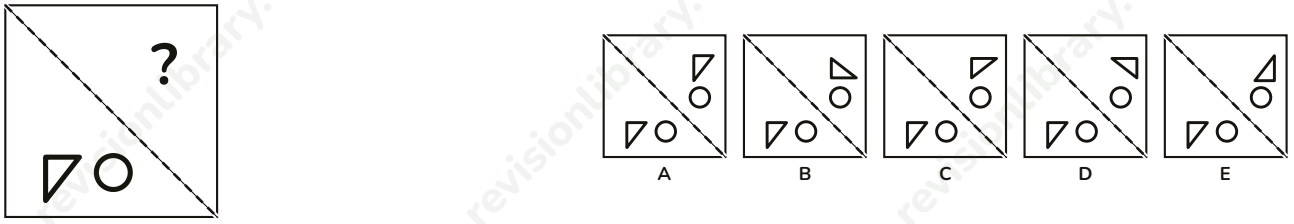
11



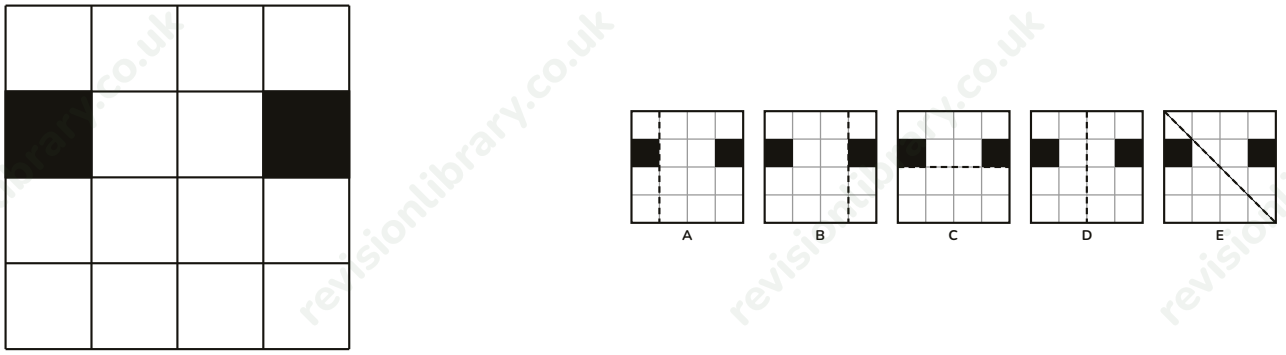
12



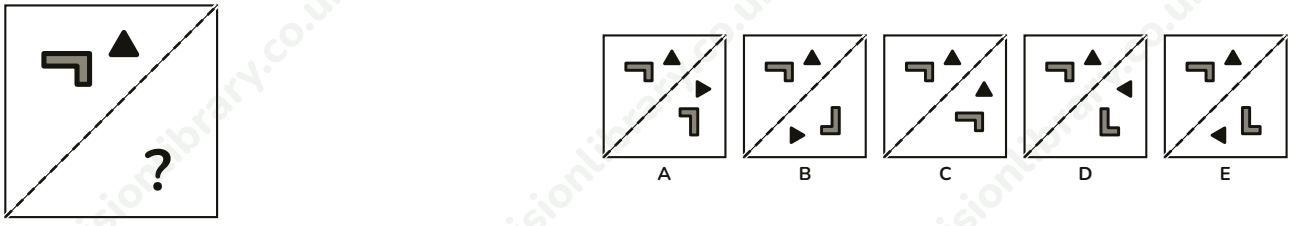
13 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



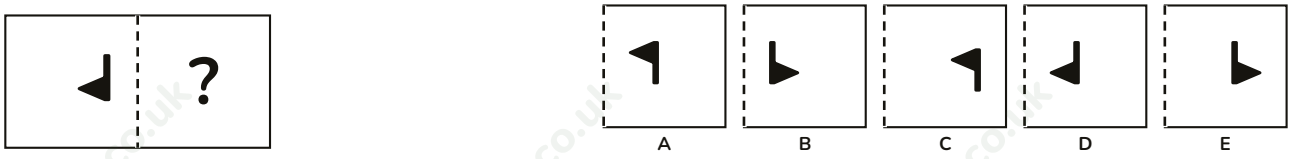
14 A figure and its mirror image are shown on the grid below. Which option (A to E) correctly states where the mirror line lies?



15 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.

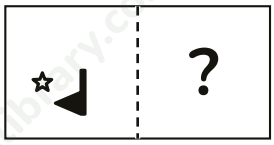


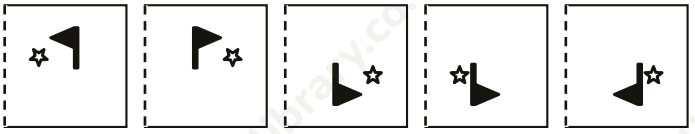
16 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



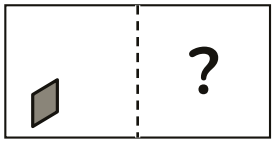
© Revision Library | revisionlibrary.co.uk

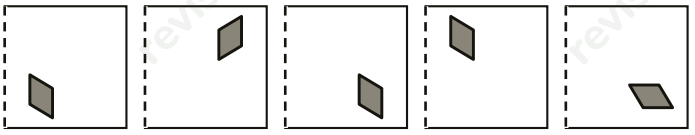
17



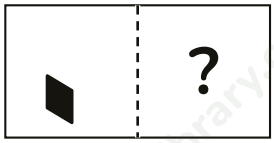


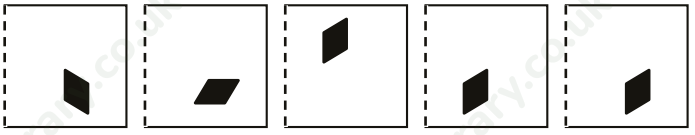
18



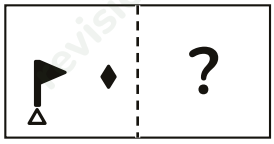


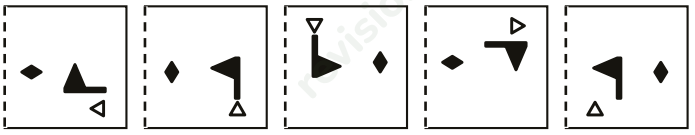
19



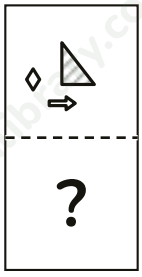


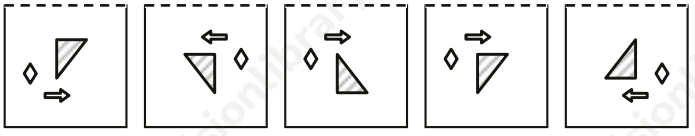
20



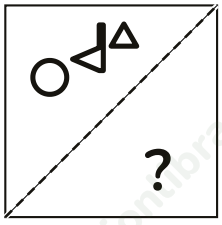


21 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



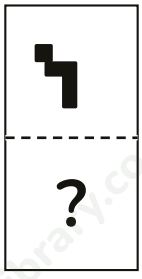


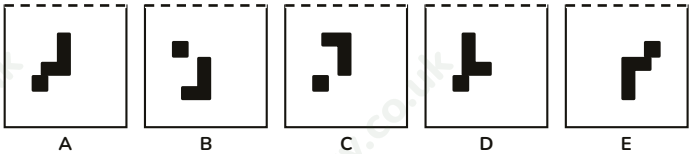
22 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.





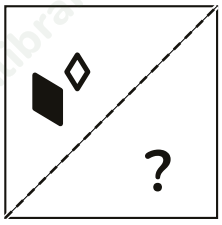
23 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.

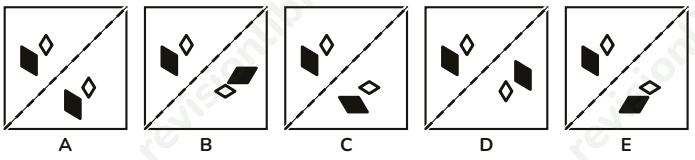




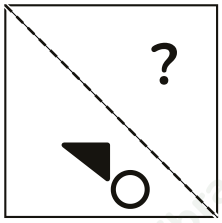
© Revision Library | revisionlibrary.co.uk

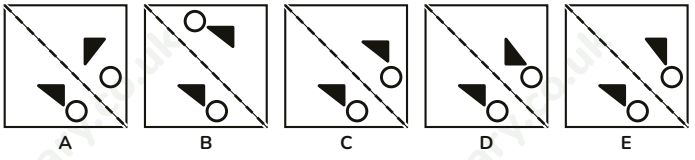
24 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



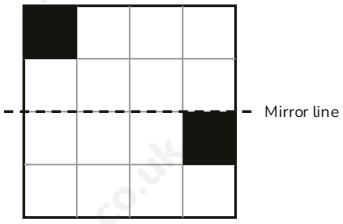


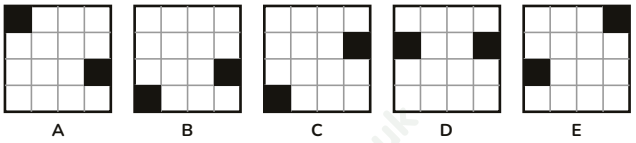
25



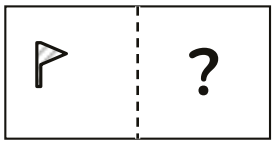


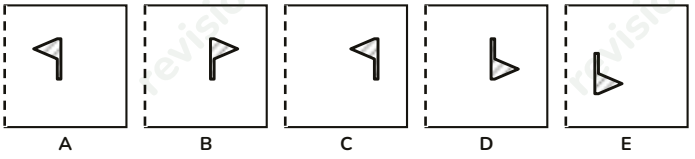
26 Look at the figure and the mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?



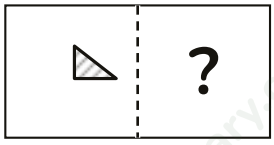


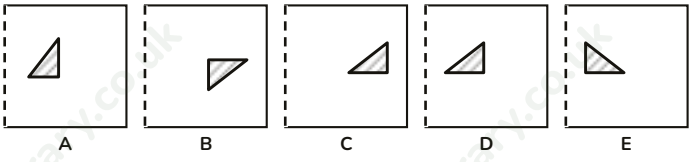
27 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



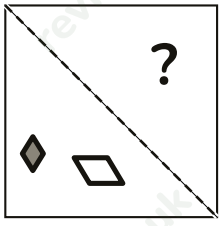


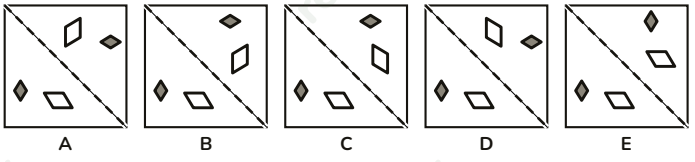
28





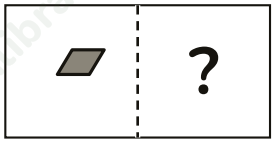
29 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.

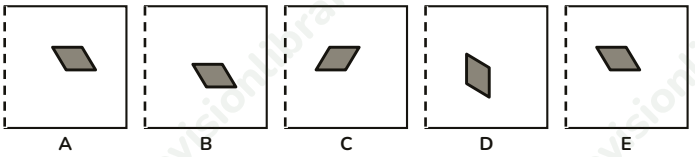




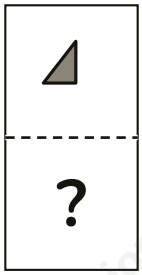
© Revision Library | revisionlibrary.co.uk

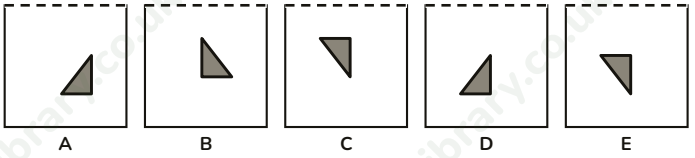
30 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



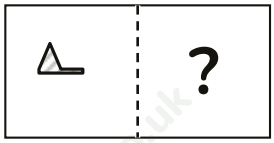


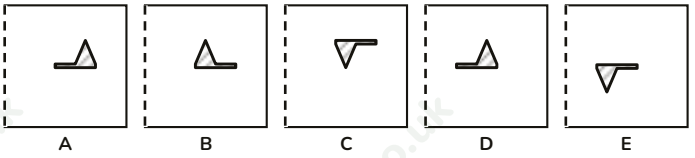
31 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



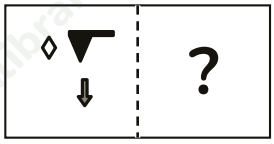


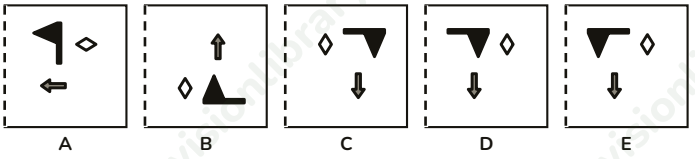
32 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



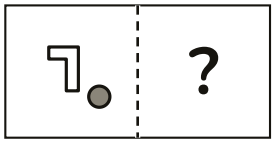


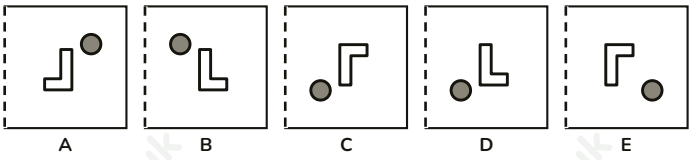
33



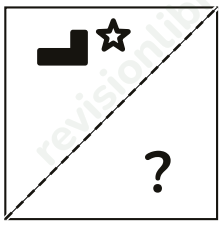


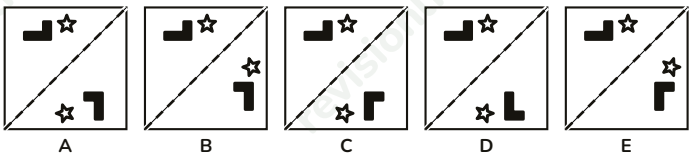
34





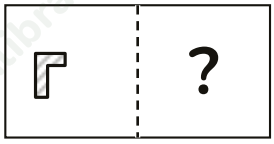
35 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.

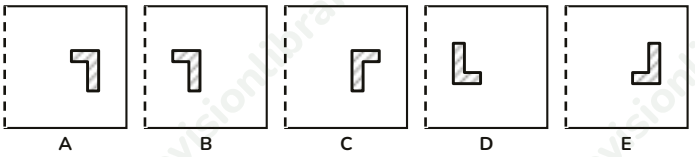




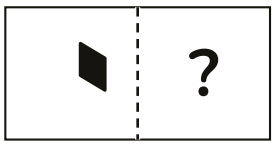
© Revision Library | revisionlibrary.co.uk

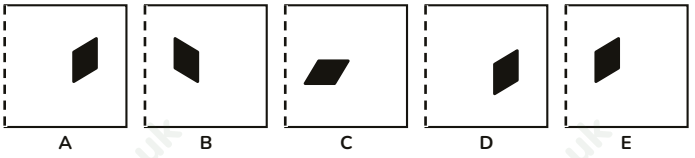
36 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



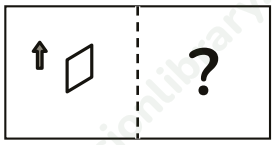


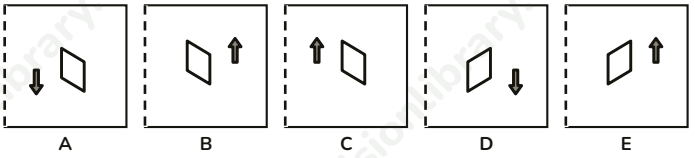
37



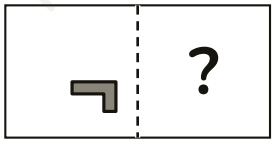


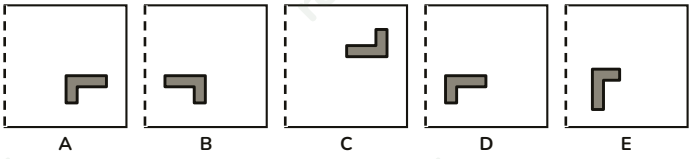
38





39





© Revision Library | revisionlibrary.co.uk

Mark scheme · 4.6 Reflection and Mirror Images: Test Pack

Question 1

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 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: C) A medium solid black L-shape (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)

Question 2

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, then turned 270 degrees clockwise) in the bottom-right and a small mid-grey diamond turned 90 degrees 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, then turned 270 degrees clockwise) in the bottom-right and a small mid-grey diamond turned 90 degrees in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 3

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

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

Question 4

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 diagonally hatched parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the bottom part and a small unshaded (white) star with one point facing down in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: D) A medium diagonally hatched parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the bottom part and a small unshaded (white) star with one point facing down in the bottom-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 5

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

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

Question 6

Correct option identified (D oe, cao) - the cell moves to the mirror-image column and the internal diagonal split, and its shaded triangle, both flip left-right along with it **B1**

Answer: D

Question 7

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) L-shape (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: E) A medium unshaded (white) L-shape (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)

Question 8

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

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

Question 9

selects option E: the image is the figure mirrored in the vertical line, with every shape the same distance from the line on the other side and flipped, giving A medium solid black parallelogram (mirrored left to right, then turned 180 degrees clockwise) in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: E) A medium solid black parallelogram (mirrored left to right, then turned 180 degrees clockwise) in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

© Revision Library | revisionlibrary.co.uk

Question 10

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) L-shape (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: B) A medium unshaded (white) L-shape (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 11

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 parallelogram (turned 270 degrees clockwise) in the top part and a small unshaded (white) square in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: E) A medium mid-grey parallelogram (turned 270 degrees clockwise) in the top part and a small unshaded (white) square in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 12

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 in the bottom-right and a small mid-grey arrow pointing down in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: B) A medium diagonally hatched parallelogram in the bottom-right and a small mid-grey arrow pointing down in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 13

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) right-angled triangle (turned 90 degrees clockwise) in the top-right and a small unshaded (white) 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: C) A small unshaded (white) right-angled triangle (turned 90 degrees clockwise) in the top-right and a small unshaded (white) circle in the right part (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 14

Correct option identified (D oe, cao) - only a vertical line exactly midway between the two shaded cells reflects one onto the other **B1**

Answer: D

Question 15

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 L-shape (turned 180 degrees clockwise) in the bottom-right and a small solid black 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: A) A small mid-grey L-shape (turned 180 degrees clockwise) in the bottom-right and a small solid black 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 16

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 left part (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 left part (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 17

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 (mirrored left to right, then turned 180 degrees clockwise) in the bottom part and a small unshaded (white) star with one point facing up in the bottom-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

Question 18

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 (turned 270 degrees clockwise) in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: C) A medium mid-grey parallelogram (turned 270 degrees clockwise) in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

© Revision Library | revisionlibrary.co.uk

Question 19

selects option E: the image is the figure mirrored in the vertical line, with every shape the same distance from the line on the other side and flipped, giving A medium solid black parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: E) A medium solid black parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 20

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) in the bottom-right, a small solid black diamond in the left part and a small unshaded (white) triangle with one point facing up in the bottom-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

Question 21

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 diagonally hatched right-angled triangle (mirrored left to right, then turned 180 degrees clockwise) in the centre, a small unshaded (white) diamond in the left part and a small unshaded (white) 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: D) A medium diagonally hatched right-angled triangle (mirrored left to right, then turned 180 degrees clockwise) in the centre, a small unshaded (white) diamond in the left part and a small unshaded (white) 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 22

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) flag (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right, a small unshaded (white) circle 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: E) A small unshaded (white) flag (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right, a small unshaded (white) circle 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)

Question 23

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) in the top-left and a small solid black square 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 (mirrored left to right) in the top-left and a small solid black square in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 24

selects option C: 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, then turned 180 degrees clockwise) in the bottom part and a small unshaded (white) diamond turned 90 degrees in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: C) A small solid black parallelogram (mirrored left to right, then turned 180 degrees clockwise) in the bottom part and a small unshaded (white) diamond turned 90 degrees in the bottom-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 25

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

Question 26

Correct option identified (C oe, cao) - both shaded cells reflect across the horizontal line to the rows the same distance on the other side, columns unchanged **B1**

Answer: C

Question 27

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) in the right 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) in the right part (upright, the flag has its pole on the left, pennant pointing right from the top)

© Revision Library | revisionlibrary.co.uk

Question 28

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 right-angled triangle (turned 270 degrees clockwise) 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: D) A medium diagonally hatched right-angled triangle (turned 270 degrees clockwise) in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

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 (turned 270 degrees clockwise) in the right part and a small mid-grey diamond turned 90 degrees 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 (turned 270 degrees clockwise) in the right part and a small mid-grey diamond turned 90 degrees in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 30

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 parallelogram (mirrored left to right, then turned 180 degrees clockwise) in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: E) A medium mid-grey parallelogram (mirrored left to right, then turned 180 degrees clockwise) in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 31

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 mid-grey right-angled triangle (turned 180 degrees clockwise) 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 mid-grey right-angled triangle (turned 180 degrees clockwise) in the bottom-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 32

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 (mirrored left to right, then turned 90 degrees clockwise) in the top-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: A) A medium diagonally hatched flag (mirrored left to right, then turned 90 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 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 (turned 90 degrees clockwise) in the top-left, a small unshaded (white) diamond in the top-right and a small mid-grey arrow pointing 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 (turned 90 degrees clockwise) in the top-left, a small unshaded (white) diamond in the top-right and a small mid-grey arrow pointing down in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 34

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 (mirrored left to right, then turned 180 degrees clockwise) in the centre and a small mid-grey 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: C) A medium unshaded (white) L-shape (mirrored left to right, then turned 180 degrees clockwise) in the centre and a small mid-grey circle in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 35

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 180 degrees clockwise) in the bottom-right and a small unshaded (white) star 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: E) A small solid black L-shape (mirrored left to right, then turned 180 degrees clockwise) in the bottom-right and a small unshaded (white) star 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 36

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 L-shape (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: A) A medium diagonally hatched L-shape (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)

© Revision Library | revisionlibrary.co.uk

Question 37

selects option E: the image is the figure mirrored in the vertical line, with every shape the same distance from the line on the other side and flipped, giving A medium solid black parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the left part (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: E) A medium solid black parallelogram (mirrored left to right, then turned 270 degrees clockwise) in the left part (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 38

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 left part and a small mid-grey arrow pointing up in the top-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 left part and a small mid-grey arrow pointing up in the top-right (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 39

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 (turned 90 degrees clockwise) 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 (turned 90 degrees clockwise) in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

© Revision Library | revisionlibrary.co.uk