4.6 Reflection and Mirror Images: 30-minute Pack

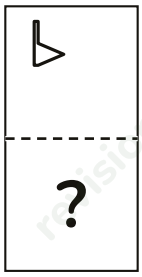
Total Marks

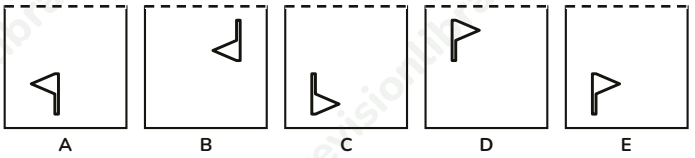
GL ASSESSMENT GL-EP.N8 · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

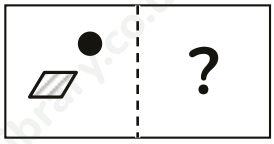
Answer ALL questions. Show all your working.

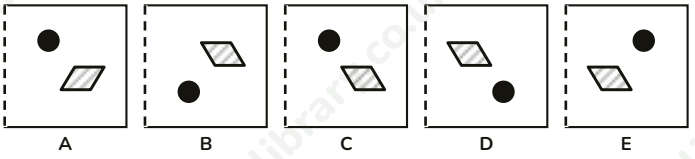
1 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



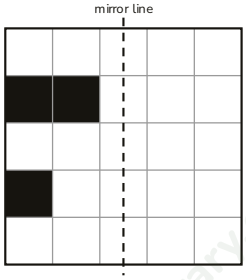


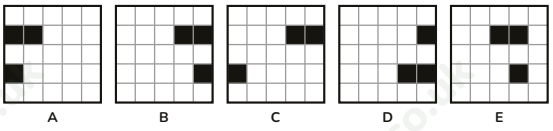
2 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



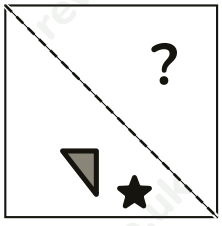


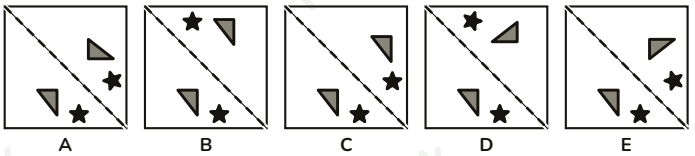
3 Look at the figure and the mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line?





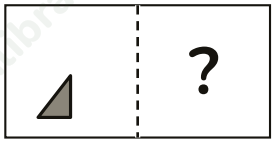
4 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.

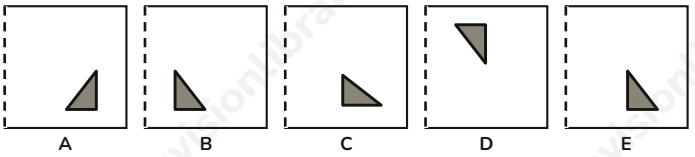




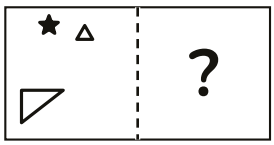
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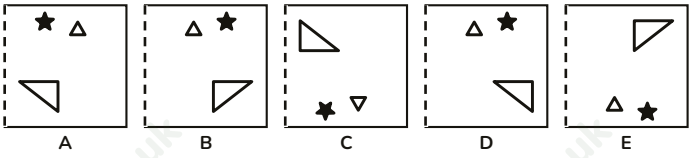
5 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



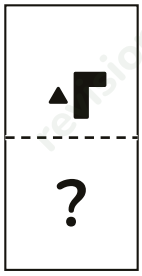


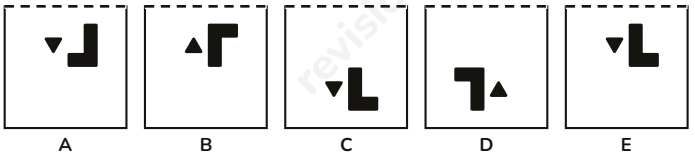
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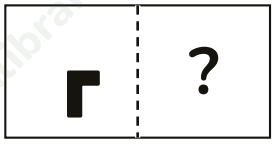


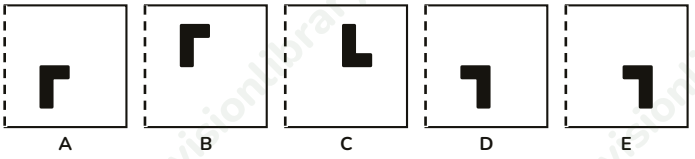
7 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



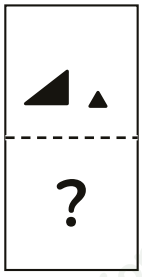


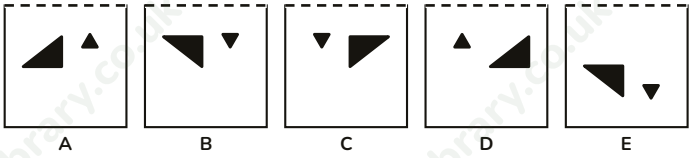
8 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



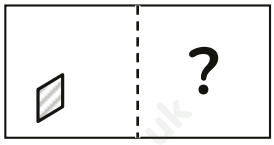


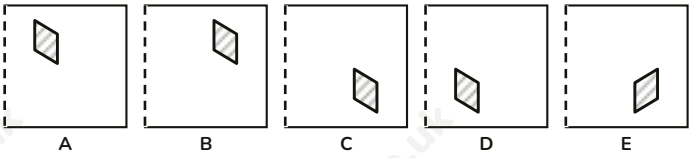
9 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.





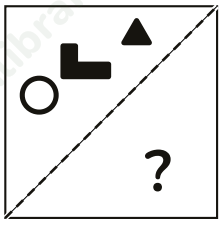
10 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.

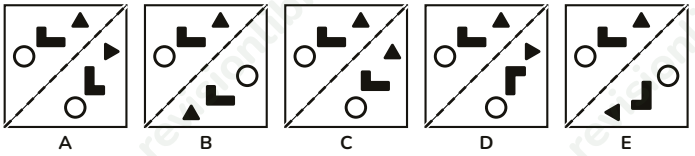




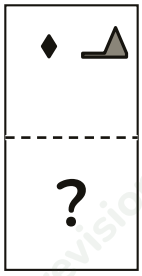
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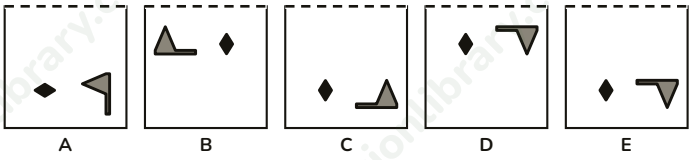
11 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



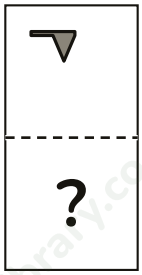


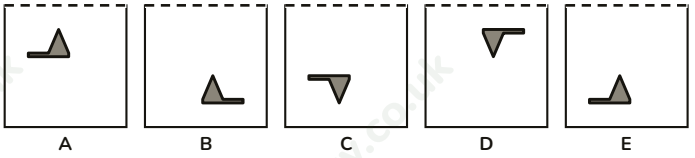
12 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



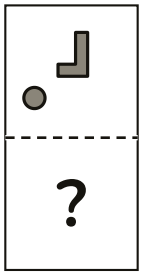


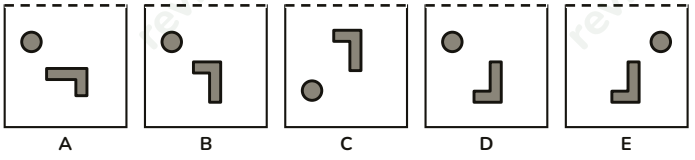
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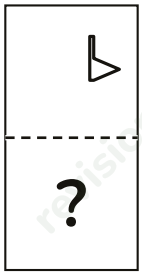


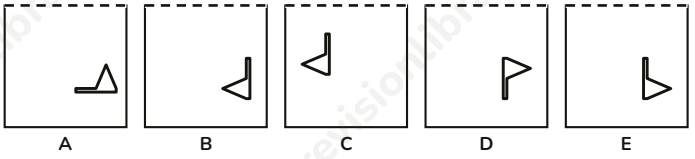
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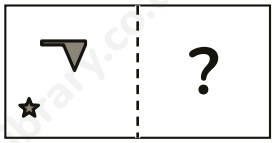


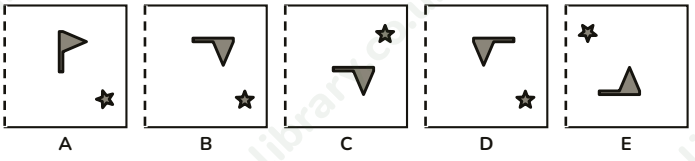
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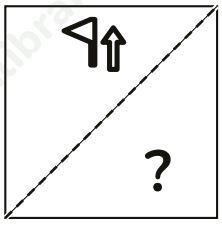
16 Look at the figure and the vertical mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.

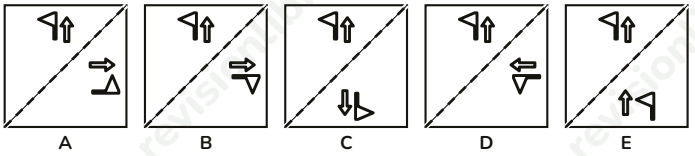




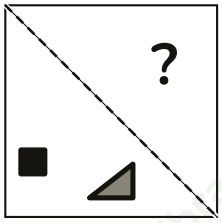
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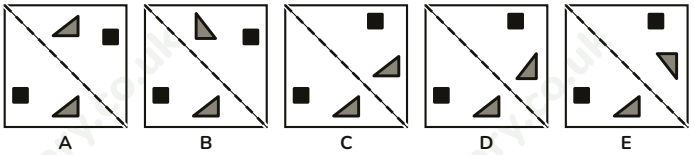
17 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.



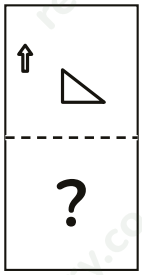


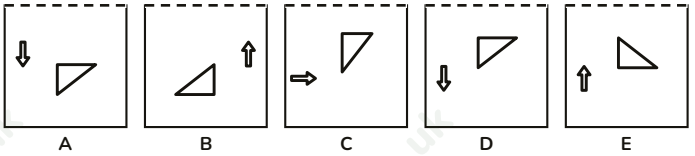
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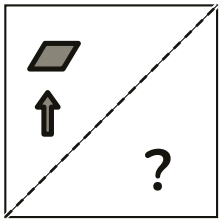


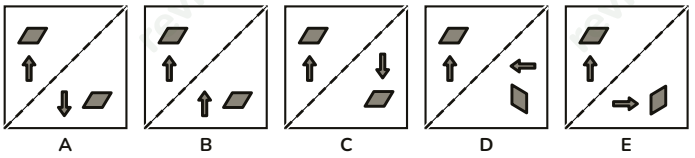
19 Look at the figure and the horizontal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the space on the other side of the line.



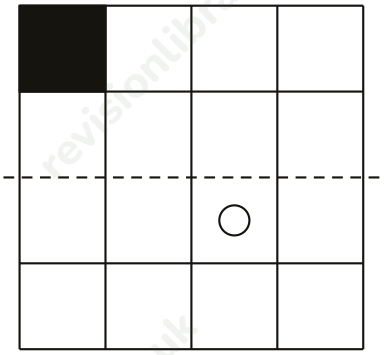


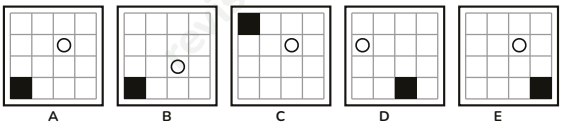
20 Look at the figure and the diagonal mirror line below. Which option (A to E) shows the correct reflection of the figure in the mirror line? Each option shows the whole square.





21 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?





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Mark scheme · 4.6 Reflection and Mirror Images: 30-minute Pack

Question 1

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) flag in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

Question 2

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 parallelogram (mirrored left to right) in the bottom-right and a small solid black circle in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right) (cao) **B1**

Answer: C) A medium diagonally hatched parallelogram (mirrored left to right) in the bottom-right and a small solid black circle in the top-left (upright, the parallelogram has its long sides horizontal, slanting up to the right)

Question 3

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

Answer: B

Question 4

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

Question 5

selects option E: the image is the figure mirrored in the vertical line, with every shape the same distance from the line on the other side and flipped, giving A medium mid-grey right-angled triangle 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: E) A medium mid-grey right-angled triangle in the bottom-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 6

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) right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right, a small solid black star with one point facing up in the top-right and a small unshaded (white) triangle with one point facing up 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 unshaded (white) right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the bottom-right, a small solid black star with one point facing up in the top-right and a small unshaded (white) triangle with one point facing up in the top-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

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 solid black L-shape in the top-right and a small solid black triangle with one point facing down in the top-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom) (cao) **B1**

Answer: E) A medium solid black L-shape in the top-right and a small solid black triangle with one point facing down 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 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 L-shape (turned 180 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 solid black L-shape (turned 180 degrees clockwise) in the bottom-left (upright, the L-shape has its tall arm on the left, foot pointing right along the bottom)

Question 9

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 right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the top-left and a small solid black triangle with one point facing down in the top-right (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom) (cao) **B1**

Answer: B) A medium solid black right-angled triangle (mirrored left to right, then turned 270 degrees clockwise) in the top-left and a small solid black triangle with one point facing down 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 10

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

Question 11

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 in the bottom-right, a small unshaded (white) circle in the bottom-right and a small solid black triangle 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: A) A small solid black L-shape in the bottom-right, a small unshaded (white) circle in the bottom-right and a small solid black triangle 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 12

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 flag (turned 90 degrees clockwise) in the bottom-right and a small solid black diamond in the bottom-left (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 90 degrees clockwise) in the bottom-right and a small solid black diamond in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 13

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

Answer: E) A medium mid-grey flag (mirrored left to right, then turned 90 degrees clockwise) in the bottom-left (upright, the flag has its pole on the left, pennant pointing right from the top)

Question 14

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

Question 15

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 in the bottom-right (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

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

Question 16

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 (mirrored left to right, then turned 270 degrees clockwise) in the top part and a small mid-grey 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: D) A medium mid-grey flag (mirrored left to right, then turned 270 degrees clockwise) in the top part and a small mid-grey 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 17

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) flag (turned 90 degrees clockwise) in the bottom-right and a small unshaded (white) arrow pointing right in the right part (upright, the flag has its pole on the left, pennant pointing right from the top) (cao) **B1**

Answer: B) A small unshaded (white) flag (turned 90 degrees clockwise) in the bottom-right and a small unshaded (white) arrow pointing 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 18

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

Question 19

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) right-angled triangle (turned 90 degrees clockwise) in the top-right and a small unshaded (white) arrow pointing 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: D) A medium unshaded (white) right-angled triangle (turned 90 degrees clockwise) in the top-right and a small unshaded (white) arrow pointing down in the bottom-left (upright, the right-angled triangle has its right angle at the bottom left, longer side along the bottom)

Question 20

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

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

Question 21

Correct option identified (A oe, cao) - both shapes reflect across the horizontal line to the row the same distance on the other side; the circle's appearance is unchanged by the flip since it is symmetrical **B1**

Answer: A

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