4.5 Rotation: 10-minute Pack

GL ASSESSMENT GL-EP.N7 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

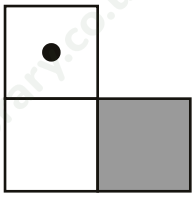
Answer ALL questions. Show all your working.

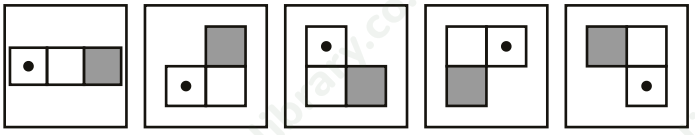
1 The arrow in the stem is rotated 90 degrees clockwise about its centre. Which option, A to E, shows the arrow after this rotation?



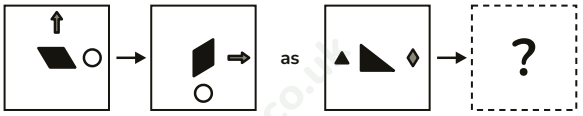


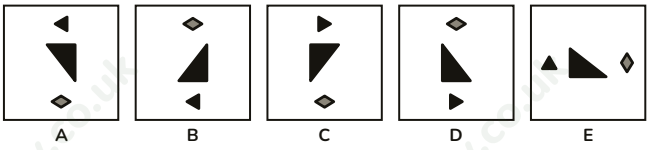
2 The tile in the stem is rotated 270 degrees clockwise about its centre. Which option, A to E, shows the tile after this rotation?



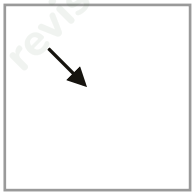


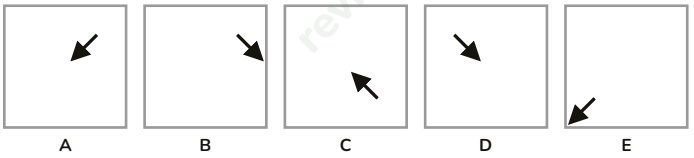
3 Shape 1 is rotated to give Shape 2 (shown as a pair below). Apply the same rotation to Shape 3. Which option, A to E, shows the result?





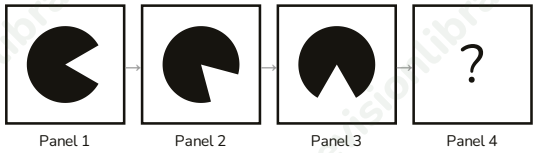
4 The square in the stem is rotated 90 degrees clockwise about its centre. Which option, A to E, shows the square after this rotation?





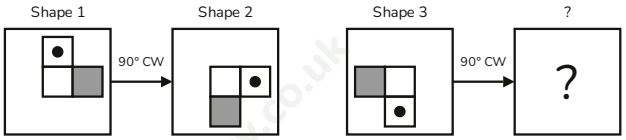
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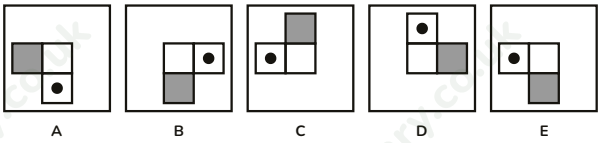
5 The three panels show the same circle's mouth rotating by a fixed 45 degree clockwise step each time. Which option, A to E, correctly shows the fourth panel in the sequence?



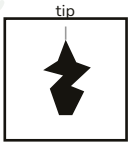


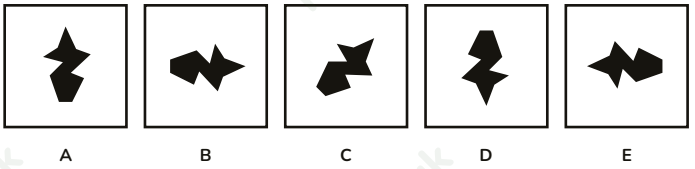
6 Shape 1 is rotated 90 degrees clockwise to give Shape 2 (shown as a pair below). Apply the same rotation to Shape 3. Which option, A to E, shows the result?





7 Options A to E all show the same zigzag arrow shape. Four of them are related to each other by rotations of exactly 90, 180 or 270 degrees. One option does not fit this pattern - its tip has been rotated by a different (non-90-multiple) amount. Which option is the odd one out?





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Mark scheme · 4.5 Rotation: 10-minute Pack

Question 1

Correct option identified (A oe) - an arrow pointing up, rotated 90 degrees clockwise, points right **B1**

Answer: A

Question 2

Correct option identified (B oe) - after a 270 degree clockwise turn the dot-square moves from above the corner to the left of it, and the grey square moves from the right of the corner to above it **B1**

Answer: B

Question 3

selects option C: A medium solid black right-angled triangle with its right angle at the up-left corner and legs extending down and right and a small solid black triangle with one point facing right in the top part and a small mid-grey diamond with its long diagonal running right to left in the bottom part (cao) **B1**

Answer: C) A medium solid black right-angled triangle with its right angle at the up-left corner and legs extending down and right and a small solid black triangle with one point facing right in the top part and a small mid-grey diamond with its long diagonal running right to left in the bottom part

Question 4

Correct option identified (A oe) - the arrow's corner moves from top-left to top-right, and its pointing direction rotates from south-east to south-west, keeping it pointed at the centre **B1**

Answer: A

Question 5

Correct option identified (B oe) - continuing the 45 degree clockwise step from Panel 3 (mouth down) moves the mouth to the lower-left **B1**

Answer: B

Question 6

Correct option identified (C oe) - applying the same 90 degree clockwise rule to Shape 3 moves the dot-square from below the corner to the left, and the grey square from the left of the corner to above it **B1**

Answer: C

Question 7

Correct option identified (C oe) - up, right, down and left are all related to each other by exact multiples of 90 degrees, but upper-right is offset by only 45 degrees from up, so it does not belong to that family **B1**

Answer: C

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