4.7 Cube Nets: Test Pack

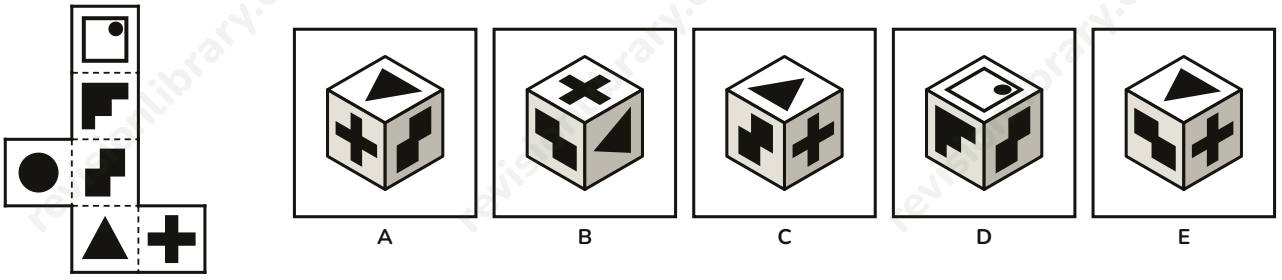
GL ASSESSMENT GL-EP.N9 · Calculators not allowed · about 60 minutes

Total Marks

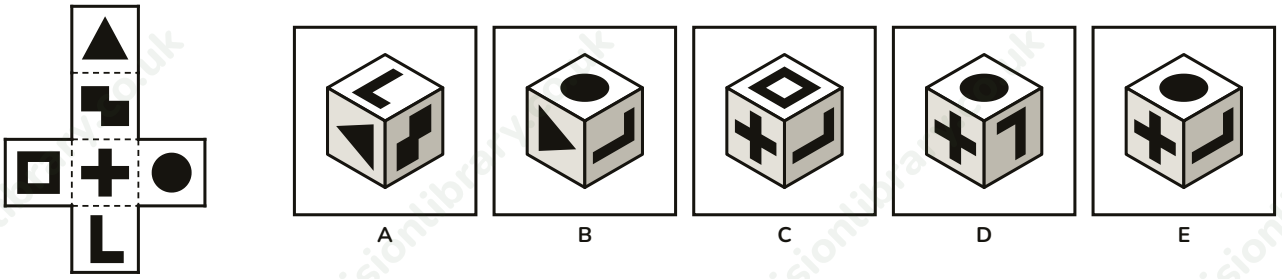
Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

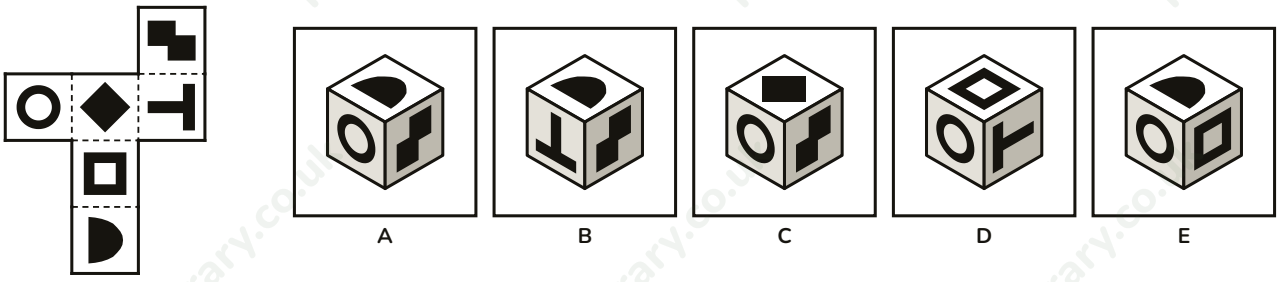
1 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?



2



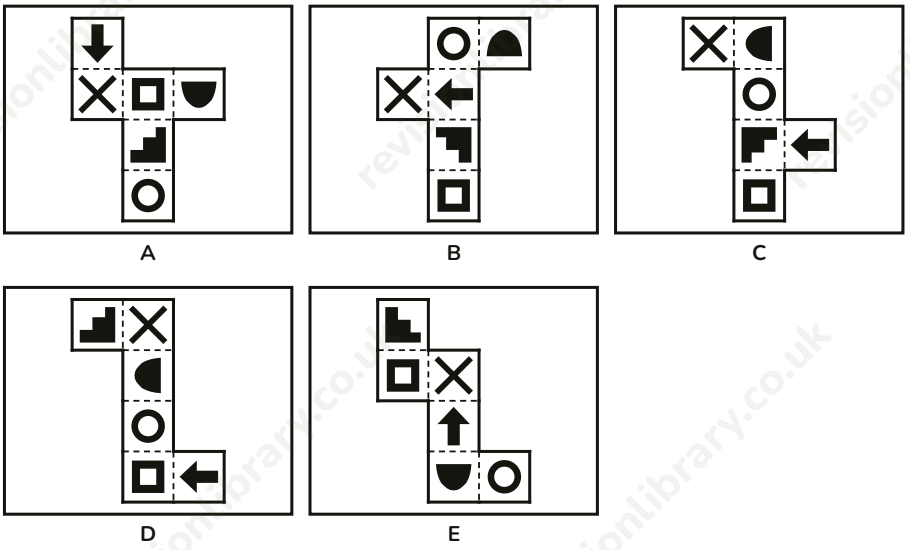
3



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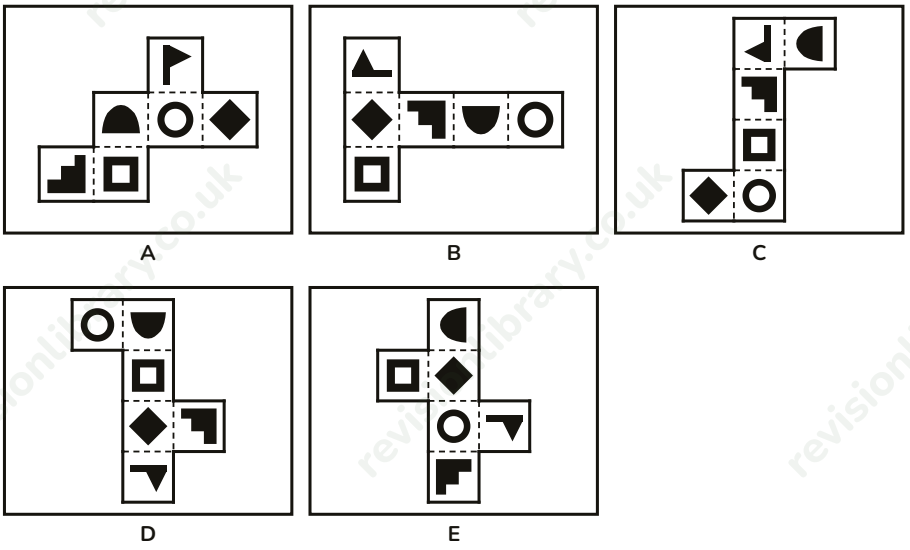
4 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



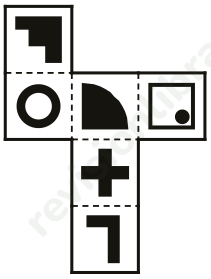


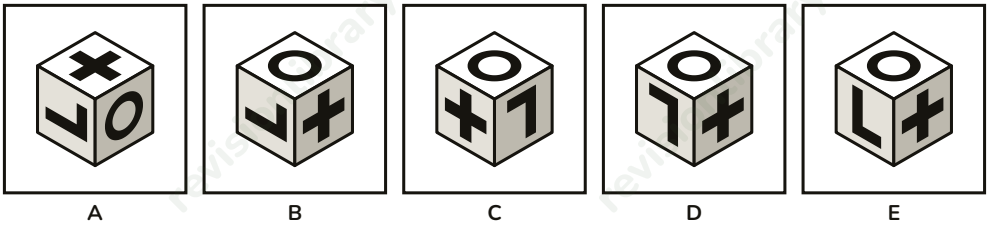
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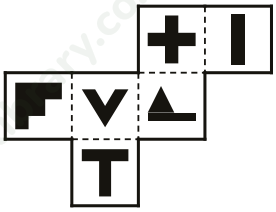
6 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?

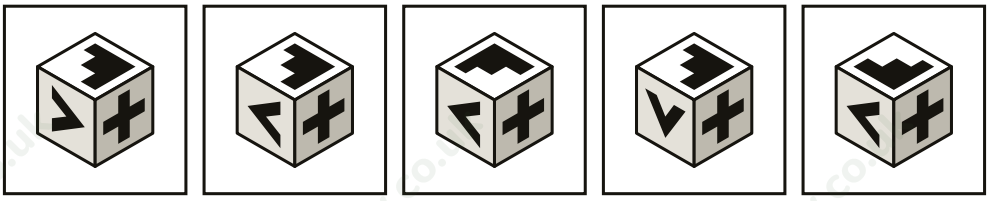




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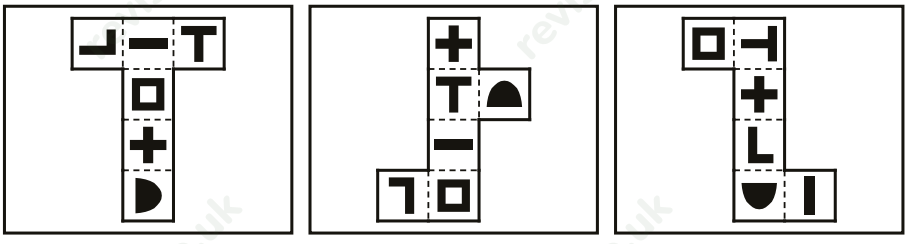




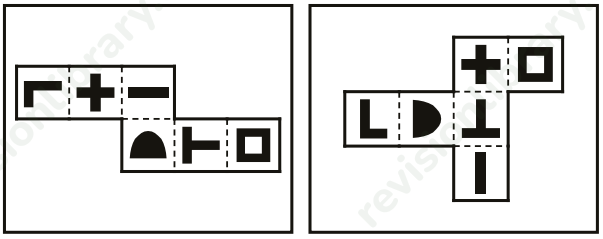
A B C D E

8 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?





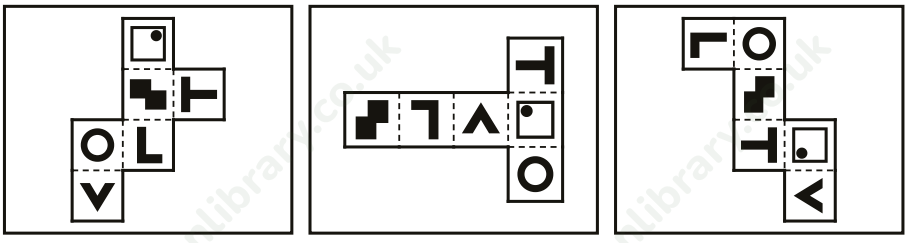
A B C



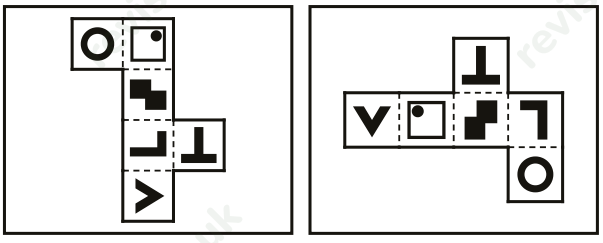
D E

9





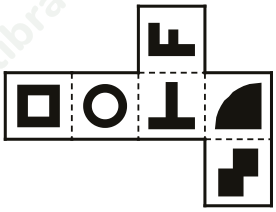
A B C

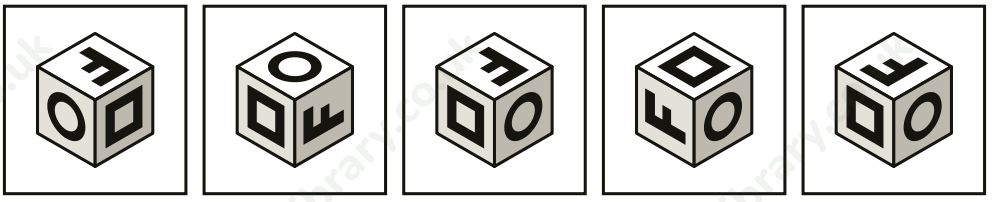


D E

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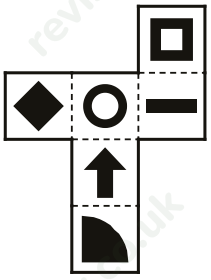
10 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?

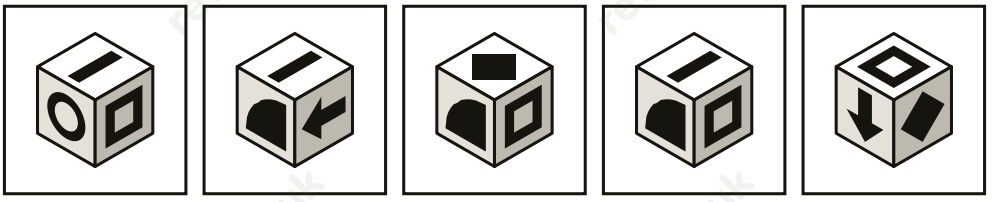




A B C D E

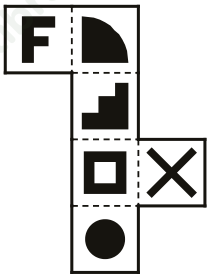
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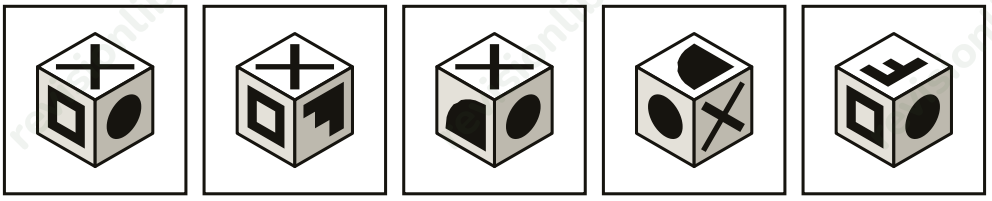




A B C D E

12



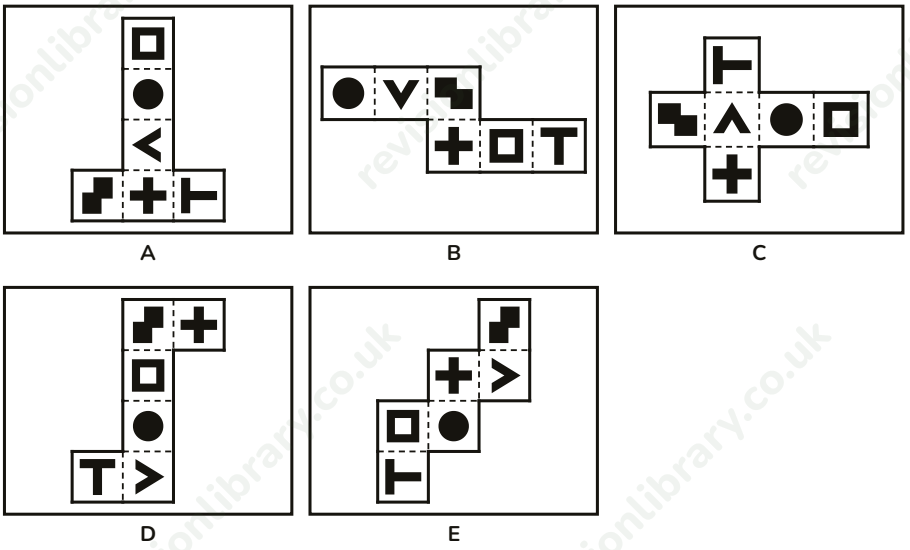


A B C D E

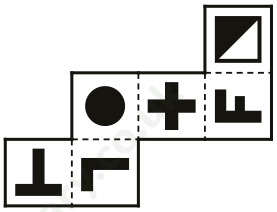
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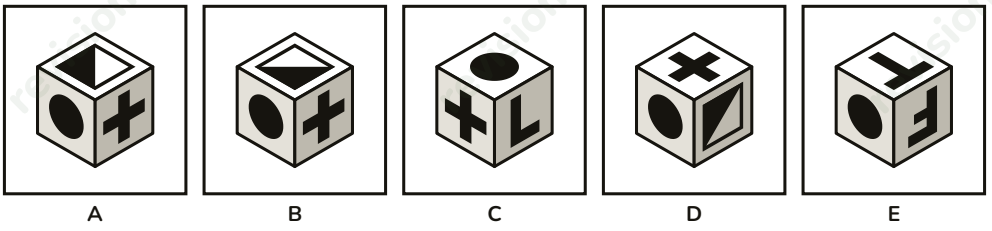
13 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



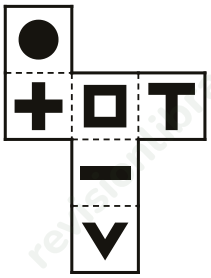


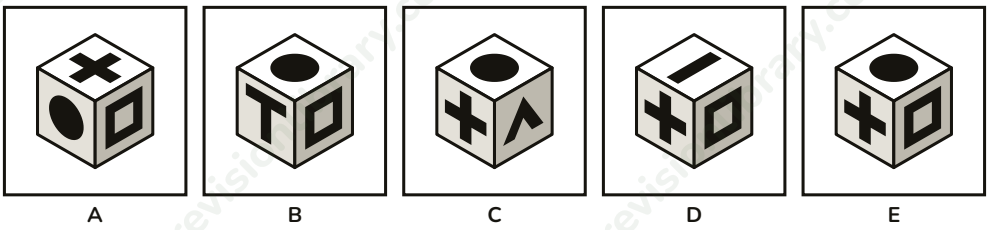
14 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?





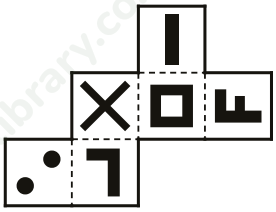
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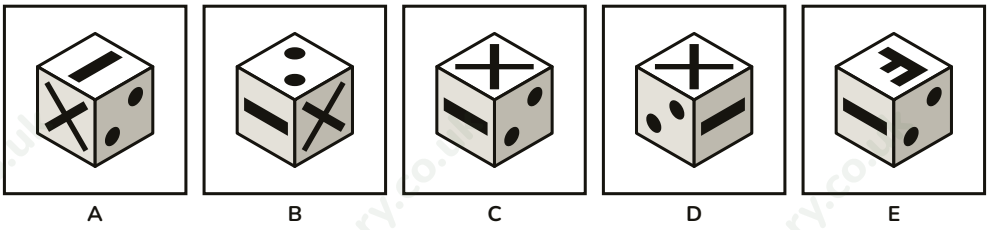




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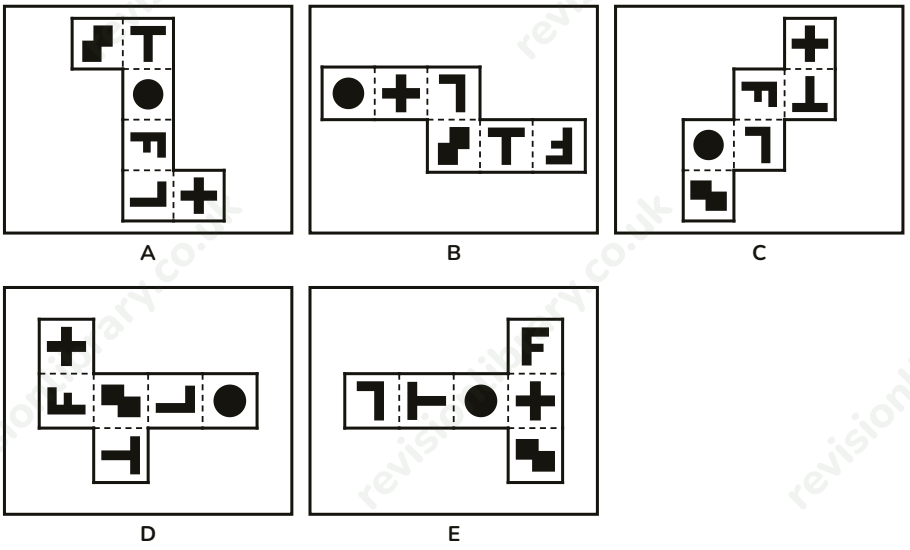
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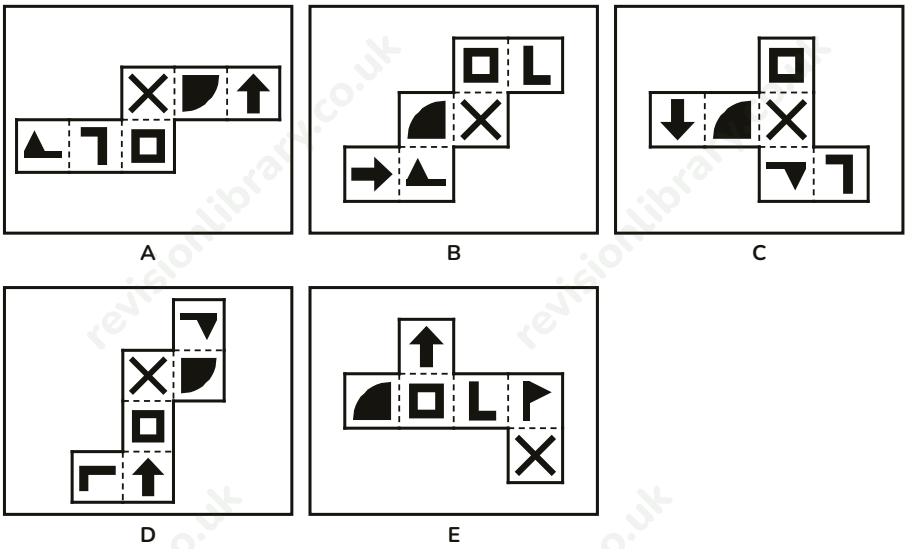
17 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?





18

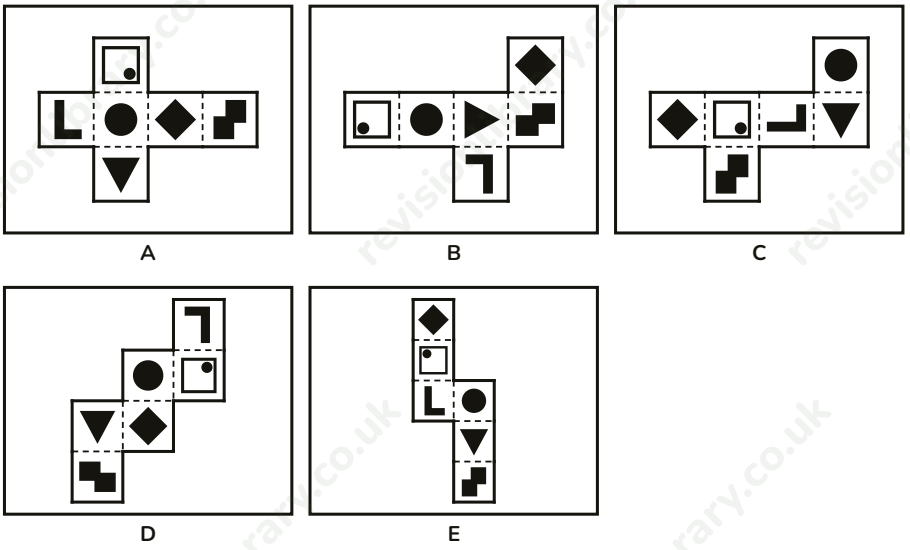




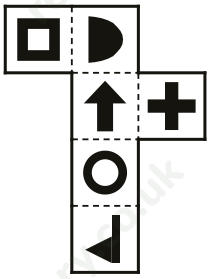
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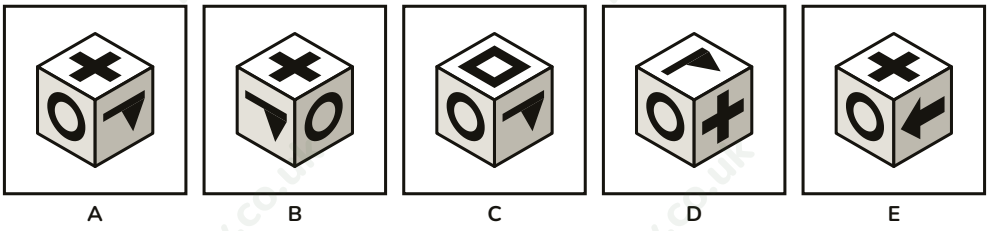
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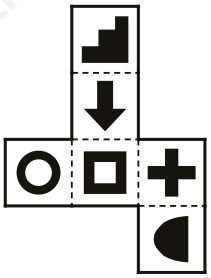


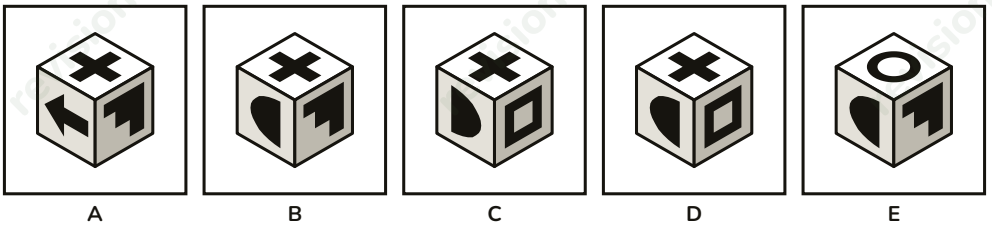
20 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?





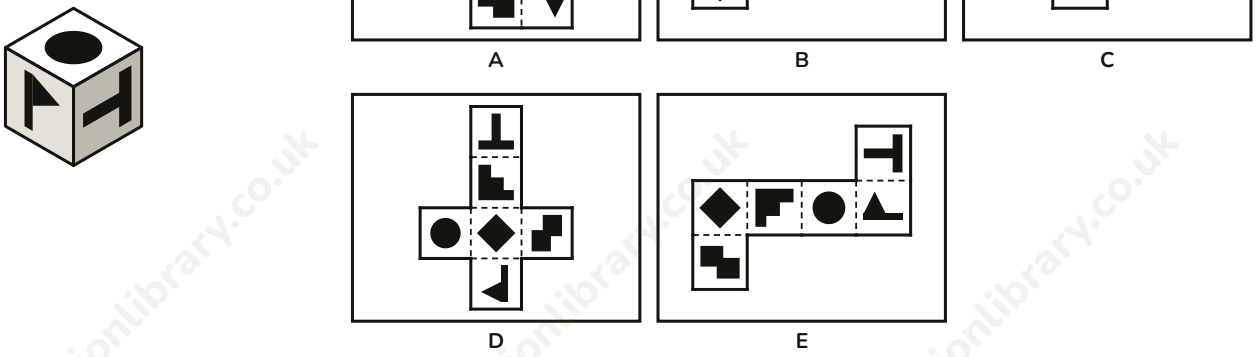
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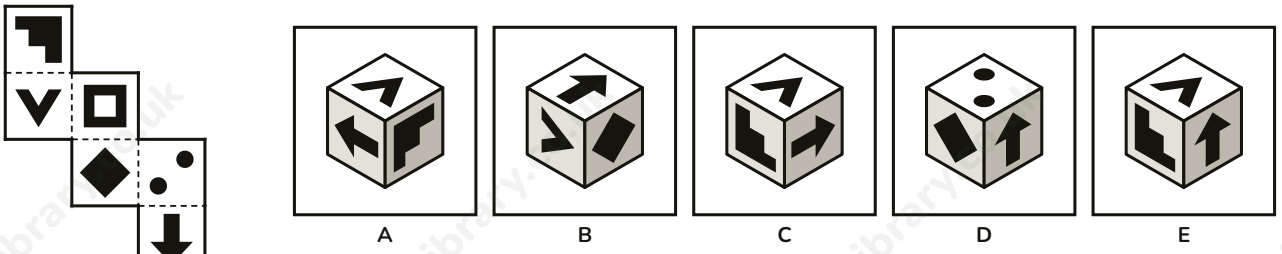


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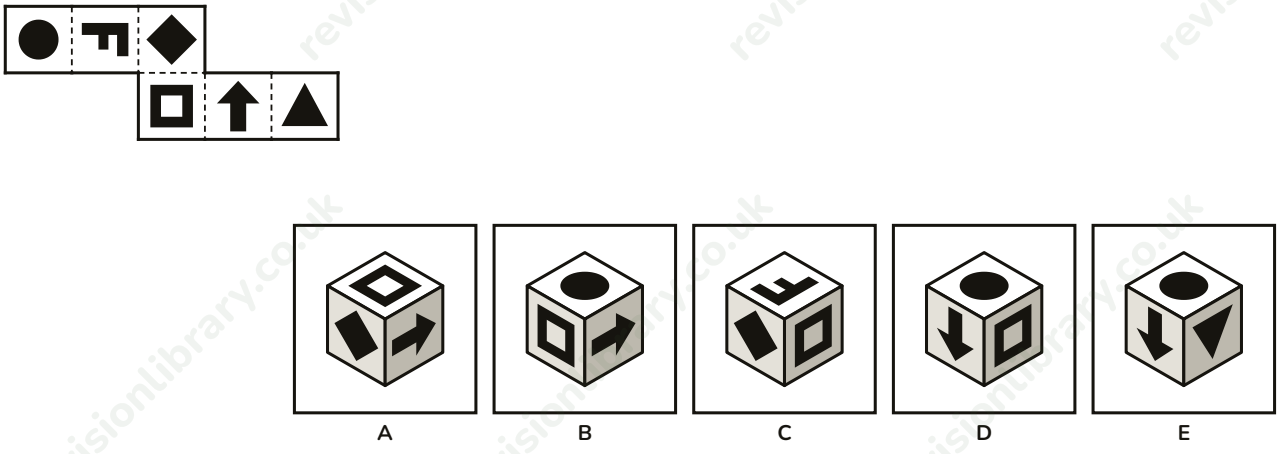
22 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



23 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?

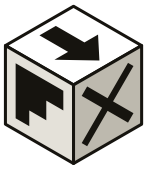


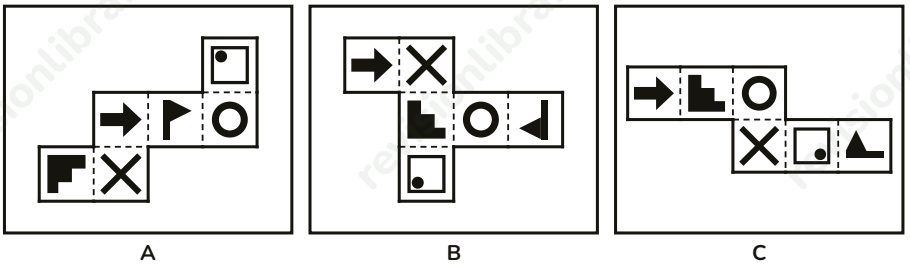
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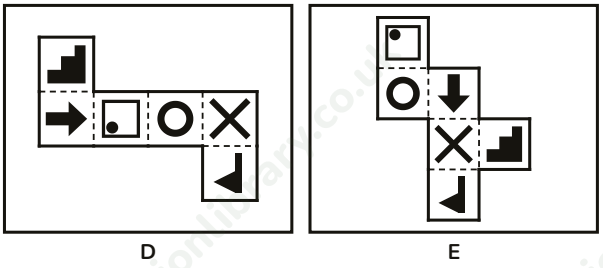


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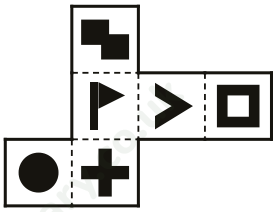
25 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?

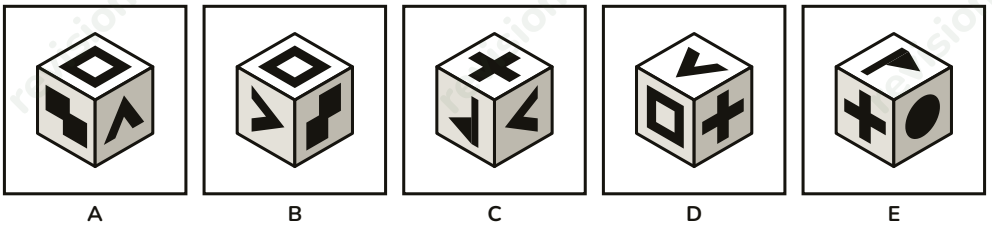




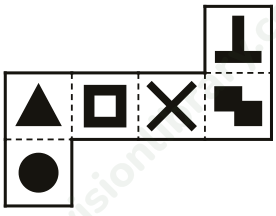


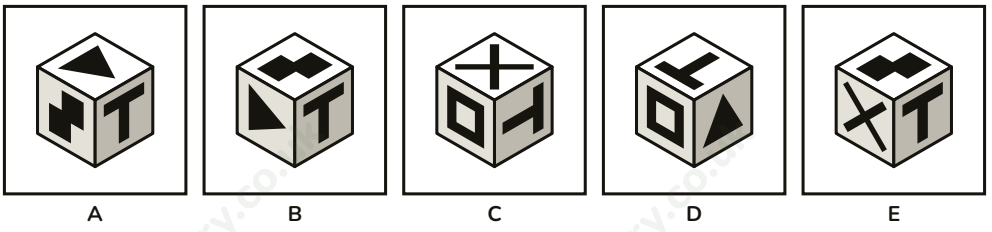
26 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?





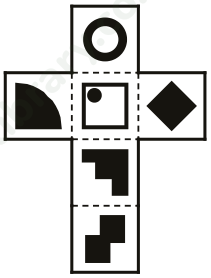
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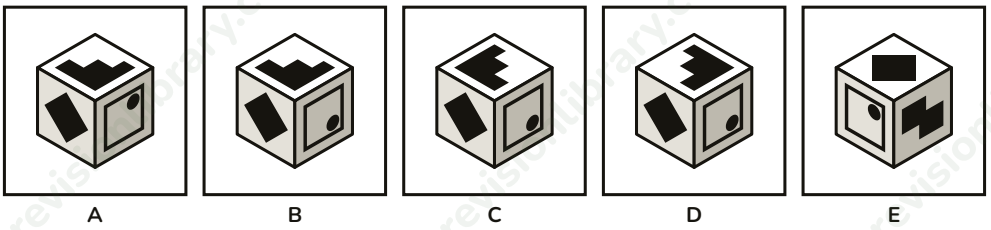




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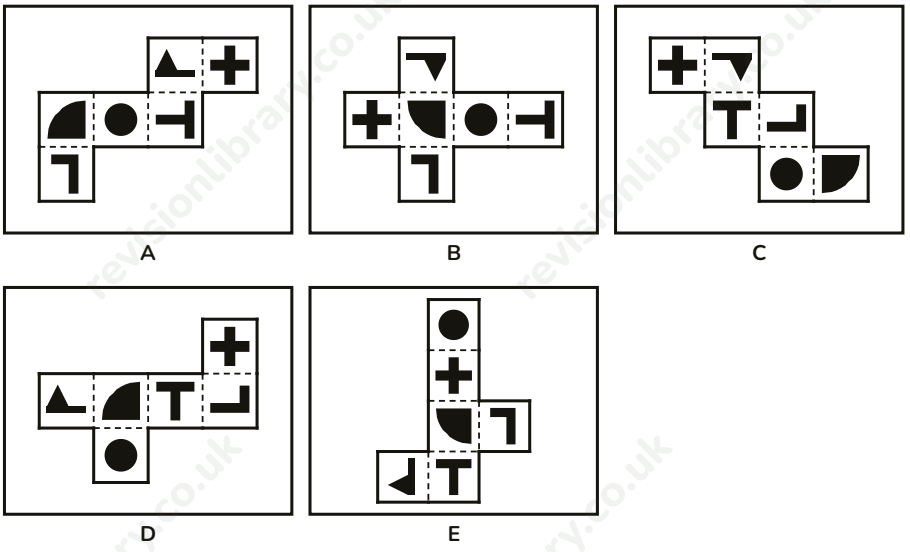
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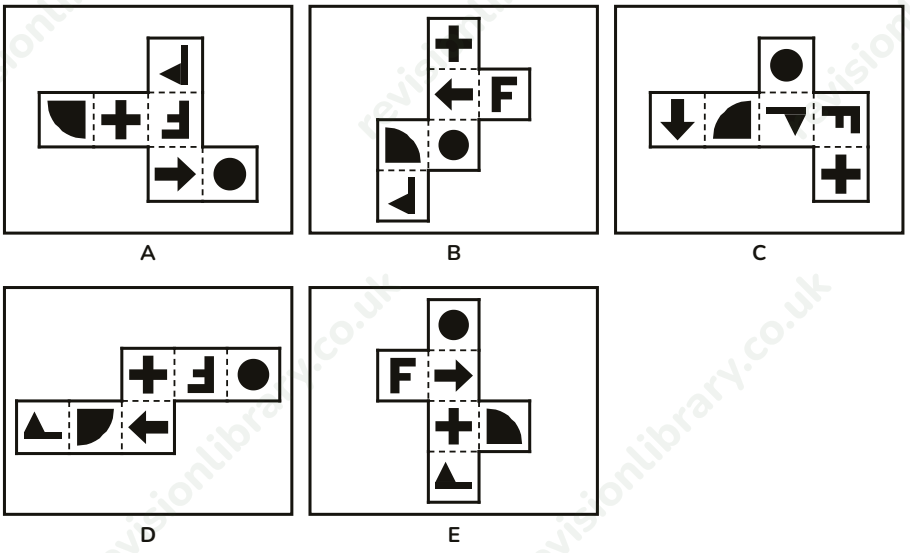
29 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?





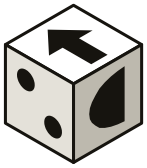
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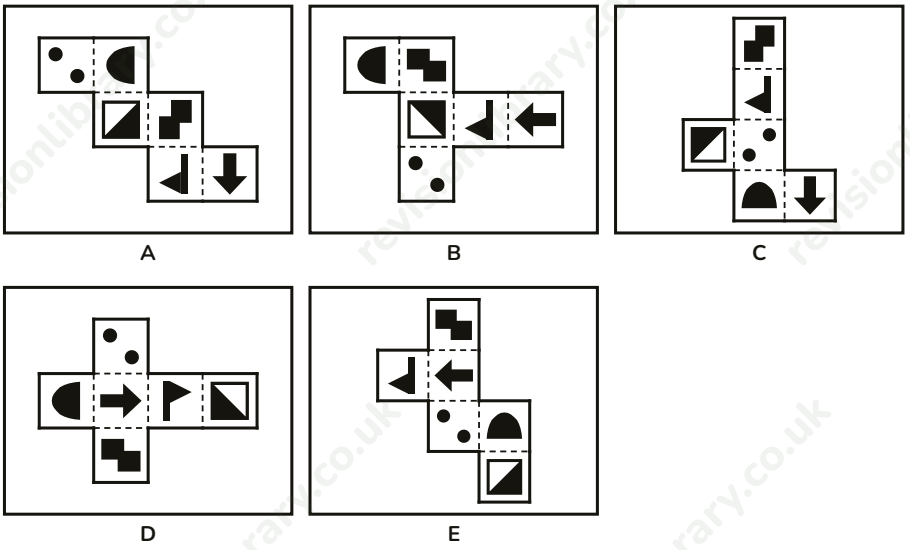




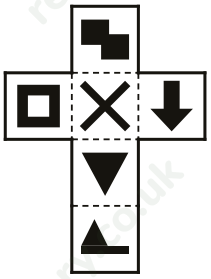
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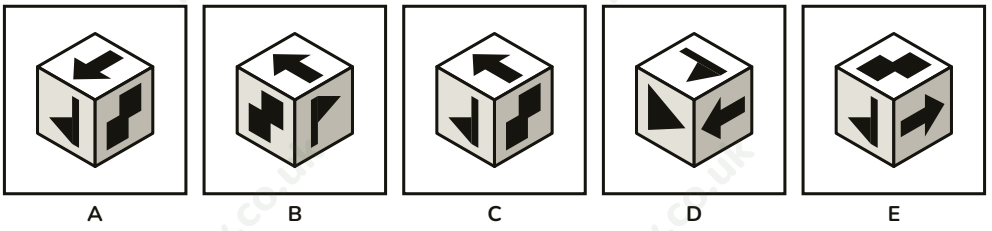
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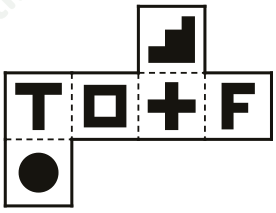


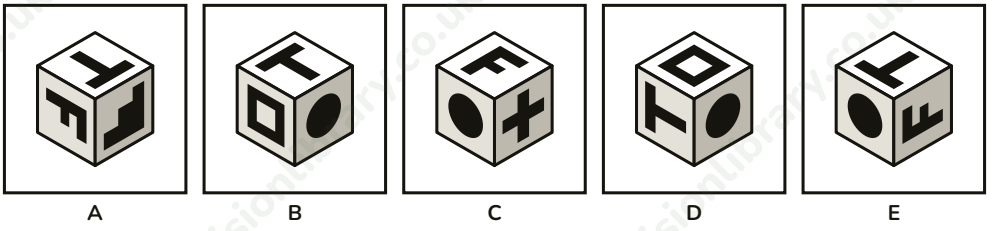
32 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?





33

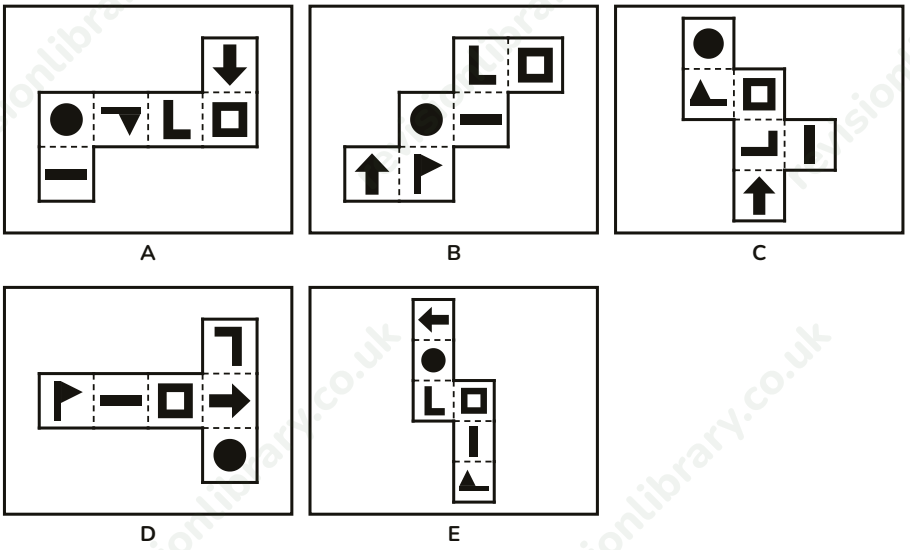




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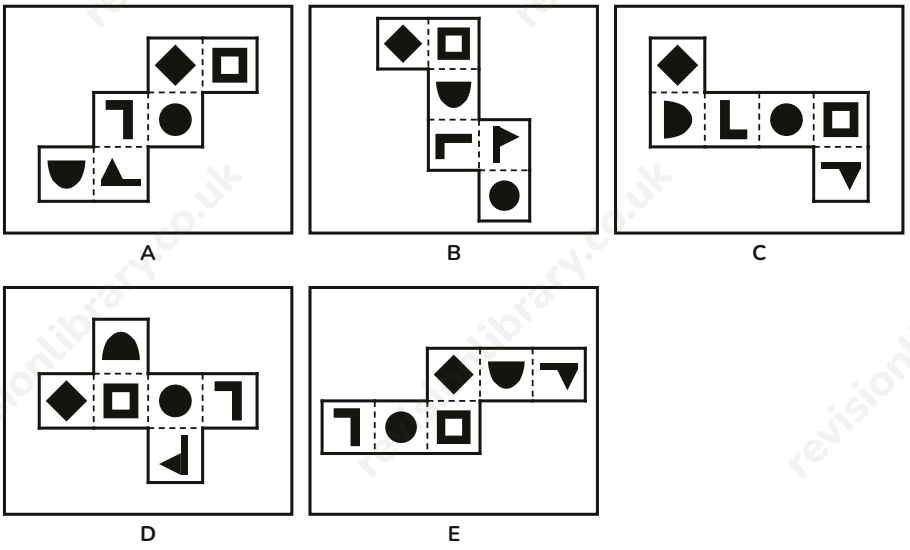
34 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



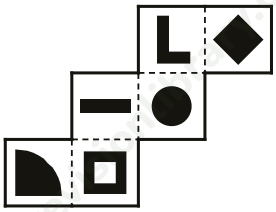


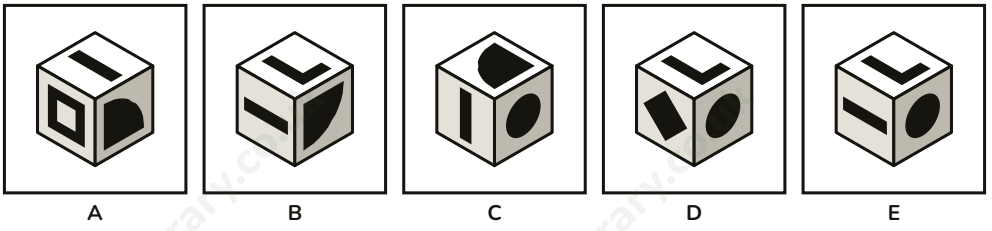
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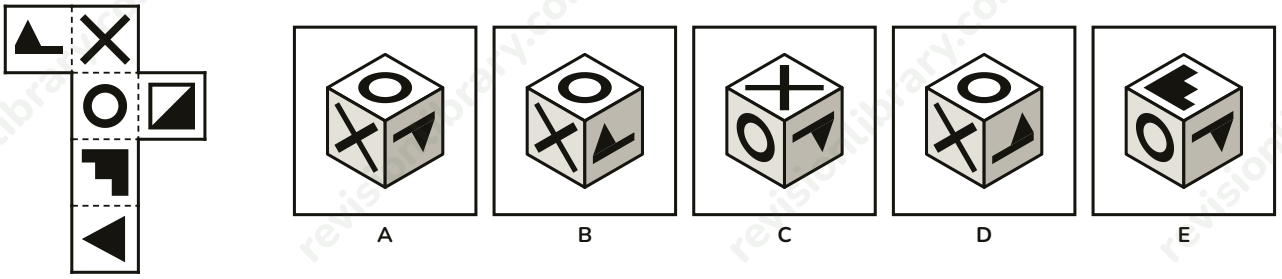
36 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?



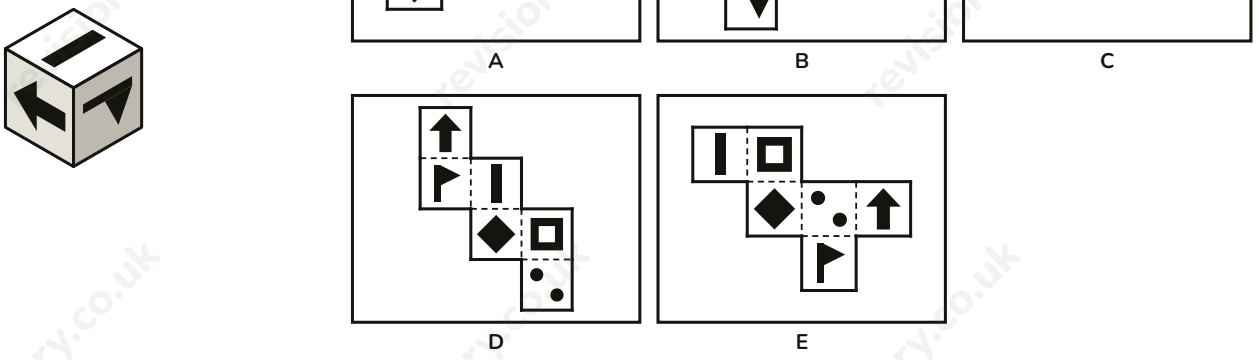


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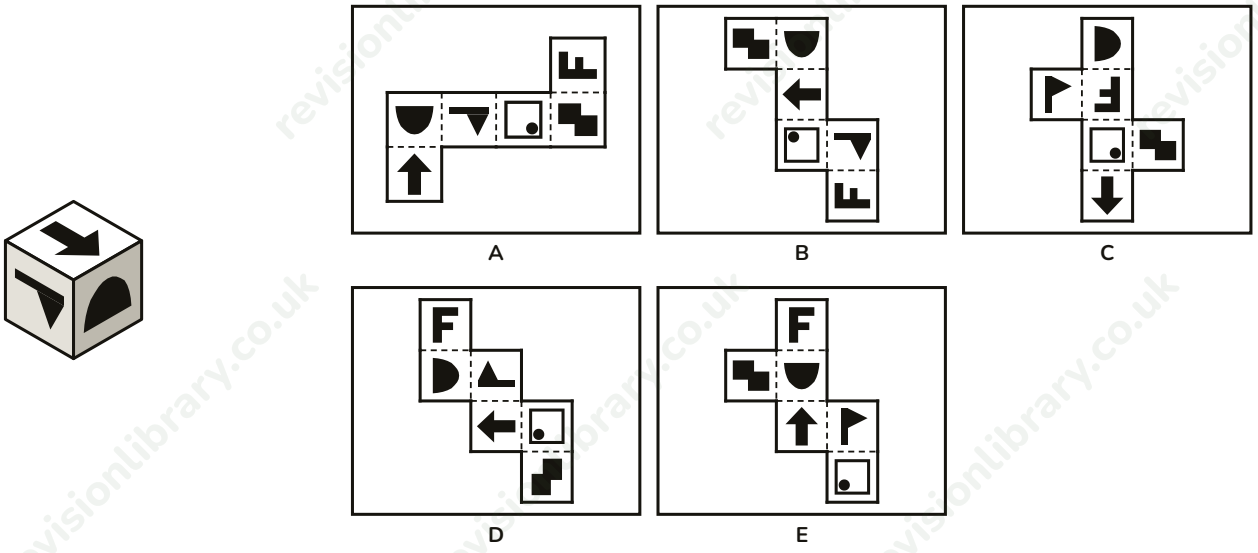
37



38 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



39



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Mark scheme · 4.7 Cube Nets: Test Pack

Question 1

Option B is correct: Isometric corner view of a cube showing three faces. TOP face: a plus sign. LEFT face: a skew block shape (two offset bars) (upright). RIGHT face: a triangle (turned a quarter turn anticlockwise). This is what the net folds to when it is turned to show these three faces. Option A is wrong: the a triangle has been turned the wrong way. Option C is wrong: a skew block shape (two offset bars) and a triangle have swapped places. Option E is wrong: a plus sign and a triangle have swapped places. Option D is wrong: a plus sign and a skew block shape (two offset bars) have swapped places. **B1**

Answer: B) Isometric corner view of a cube showing three faces. TOP face: a plus sign. LEFT face: a skew block shape (two offset bars) (upright). RIGHT face: a triangle (turned a quarter turn anticlockwise).

Question 2

Option E is correct: Isometric corner view of a cube showing three faces. TOP face: a solid circle. LEFT face: a plus sign. RIGHT face: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise). This is what the net folds to when it is turned to show these three faces. Option A is wrong: a solid circle and an L shape with a long upright stroke and a short foot have swapped places. Option B is wrong: a triangle appears where a plus sign should be: they are on opposite faces, so they can never meet at a corner. Option C is wrong: a skew block shape (two offset bars) appears where an L shape with a long upright stroke and a short foot should be: they are on opposite faces, so they can never meet at a corner. Option D is wrong: the an L shape with a long upright stroke and a short foot has been turned the wrong way. **B1**

Answer: E) Isometric corner view of a cube showing three faces. TOP face: a solid circle. LEFT face: a plus sign. RIGHT face: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise).

Question 3

Option A is correct: Isometric corner view of a cube showing three faces. TOP face: a half disc (turned a quarter turn anticlockwise). LEFT face: a ring. RIGHT face: a skew block shape (two offset bars) (turned a quarter turn). This is what the net folds to when it is turned to show these three faces. Option B is wrong: a letter T appears where a ring should be: they are on opposite faces, so they can never meet at a corner. Option D is wrong: a half disc and a ring have swapped places. Option C is wrong: a diamond appears where a half disc should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: a square frame appears where a skew block shape (two offset bars) should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: A) Isometric corner view of a cube showing three faces. TOP face: a half disc (turned a quarter turn anticlockwise). LEFT face: a ring. RIGHT face: a skew block shape (two offset bars) (turned a quarter turn).

Question 4

Option E is correct: it folds to a cube with a diagonal cross on the top, a staircase (upright) on the left, a square frame on the right. Option A is wrong: when folded, the a staircase has been turned the wrong way. Option B is wrong: when folded, a staircase and a square frame have swapped places. Option C is wrong: when folded, a diagonal cross and a staircase have swapped places. Option D is wrong: when folded, a diagonal cross and a square frame have swapped places. **B1**

Answer: E) Net of six squares. Row 1 (from the top): column 1: a staircase (turned a quarter turn clockwise). Row 2 (from the top): column 1: a square frame, then column 2: a diagonal cross. Row 3 (from the top): column 2: an arrow (upright). Row 4 (from the top): column 2: a half disc (turned a quarter turn clockwise), then column 3: a ring.

Question 5

Option D is correct: it folds to a cube with a staircase (turned a quarter turn anticlockwise) on the top, a flag on a pole (upright) on the left, a half disc (upright) on the right. Option B is wrong: when folded, a ring appears where a staircase should be: they are on opposite faces, so they can never meet at a corner. Option C is wrong: when folded, a square frame appears where a flag on a pole should be: they are on opposite faces, so they can never meet at a corner. Option A is wrong: when folded, a diamond appears where a half disc should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: when folded, a staircase and a half disc have swapped places. **B1**

Answer: D) Net of six squares. Row 1 (from the top): column 1: a ring, then column 2: a half disc (turned a quarter turn clockwise). Row 2 (from the top): column 2: a square frame. Row 3 (from the top): column 2: a diamond, then column 3: a staircase (turned a quarter turn anticlockwise). Row 4 (from the top): column 2: a flag on a pole (turned a quarter turn clockwise).

Question 6

Option B is correct: Isometric corner view of a cube showing three faces. TOP face: a ring. LEFT face: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise). RIGHT face: a plus sign. This is what the net folds to when it is turned to show these three faces. Option A is wrong: a ring and a plus sign have swapped places. Option C is wrong: an L shape with a long upright stroke and a short foot and a plus sign have swapped places. Option D is wrong: the an L shape with a long upright stroke and a short foot has been turned the wrong way. Option E is wrong: the an L shape with a long upright stroke and a short foot has been turned the wrong way. **B1**

Answer: B) Isometric corner view of a cube showing three faces. TOP face: a ring. LEFT face: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise). RIGHT face: a plus sign.

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Question 7

Option B is correct: Isometric corner view of a cube showing three faces. TOP face: a staircase (turned a quarter turn anticlockwise). LEFT face: a chevron (turned a quarter turn clockwise). RIGHT face: a plus sign. This is what the net folds to when it is turned to show these three faces. Option D is wrong: the a chevron has been turned the wrong way. Option A is wrong: the a chevron has been turned the wrong way. Option C is wrong: the a staircase has been turned the wrong way. Option E is wrong: the a staircase has been turned the wrong way. **B1**

Answer: B) Isometric corner view of a cube showing three faces. TOP face: a staircase (turned a quarter turn anticlockwise). LEFT face: a chevron (turned a quarter turn clockwise). RIGHT face: a plus sign.

Question 8

Option A is correct: it folds to a cube with a half disc (upright) on the top, a thick bar (upright) on the left, a letter T (upright) on the right. Option E is wrong: when folded, the a letter T has been turned the wrong way. Option C is wrong: when folded, a half disc and a thick bar have swapped places. Option B is wrong: when folded, a half disc and a letter T have swapped places. Option D is wrong: when folded, a thick bar and a letter T have swapped places. **B1**

Answer: A) Net of six squares. Row 1 (from the top): column 1: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise), then column 2: a thick bar (upright), then column 3: a letter T (upright). Row 2 (from the top): column 2: a square frame. Row 3 (from the top): column 2: a plus sign. Row 4 (from the top): column 2: a half disc (upright).

Question 9

Option B is correct: it folds to a cube with a letter T (turned a quarter turn anticlockwise) on the top, an L shape with a long upright stroke and a short foot (turned upside down) on the left, a chevron (turned upside down) on the right. Option A is wrong: when folded, the an L shape with a long upright stroke and a short foot has been turned the wrong way. Option C is wrong: when folded, the a letter T has been turned the wrong way. Option D is wrong: when folded, the a letter T has been turned the wrong way. Option E is wrong: when folded, the a chevron has been turned the wrong way. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 4: a letter T (turned a quarter turn clockwise). Row 2 (from the top): column 1: a skew block shape (two offset bars) (turned a quarter turn), then column 2: an L shape with a long upright stroke and a short foot (turned upside down), then column 3: a chevron (turned upside down), then column 4: a square with a dot in one corner (upright). Row 3 (from the top): column 4: a ring.

Question 10

Option C is correct: Isometric corner view of a cube showing three faces. TOP face: a capital F (turned a quarter turn clockwise). LEFT face: a square frame. RIGHT face: a ring. This is what the net folds to when it is turned to show these three faces. Option E is wrong: the a capital F has been turned the wrong way. Option D is wrong: a capital F and a square frame have swapped places. Option B is wrong: a capital F and a ring have swapped places. Option A is wrong: a square frame and a ring have swapped places. **B1**

Answer: C) Isometric corner view of a cube showing three faces. TOP face: a capital F (turned a quarter turn clockwise). LEFT face: a square frame. RIGHT face: a ring.

Question 11

Option D is correct: Isometric corner view of a cube showing three faces. TOP face: a thick bar (turned a quarter turn). LEFT face: a quarter disc (turned a quarter turn anticlockwise). RIGHT face: a square frame. This is what the net folds to when it is turned to show these three faces. Option E is wrong: a quarter disc and a square frame have swapped places. Option A is wrong: a ring appears where a quarter disc should be: they are on opposite faces, so they can never meet at a corner. Option C is wrong: a diamond appears where a thick bar should be: they are on opposite faces, so they can never meet at a corner. Option B is wrong: an arrow appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: D) Isometric corner view of a cube showing three faces. TOP face: a thick bar (turned a quarter turn). LEFT face: a quarter disc (turned a quarter turn anticlockwise). RIGHT face: a square frame.

Question 12

Option A is correct: Isometric corner view of a cube showing three faces. TOP face: a diagonal cross. LEFT face: a square frame. RIGHT face: a solid circle. This is what the net folds to when it is turned to show these three faces. Option C is wrong: a quarter disc appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. Option B is wrong: a staircase appears where a solid circle should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: a square frame and a solid circle have swapped places. Option D is wrong: a capital F appears where a diagonal cross should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: A) Isometric corner view of a cube showing three faces. TOP face: a diagonal cross. LEFT face: a square frame. RIGHT face: a solid circle.

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Question 13

Option B is correct: it folds to a cube with a chevron (upright) on the top, a plus sign on the left, a skew block shape (two offset bars) (turned a quarter turn) on the right. Option A is wrong: when folded, a plus sign and a skew block shape (two offset bars) have swapped places. Option C is wrong: when folded, a letter T appears where a plus sign should be: they are on opposite faces, so they can never meet at a corner. Option D is wrong: when folded, a solid circle appears where a skew block shape (two offset bars) should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: when folded, a square frame appears where a chevron should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 1: a solid circle, then column 2: a chevron (upright), then column 3: a skew block shape (two offset bars) (upright). Row 2 (from the top): column 3: a plus sign, then column 4: a square frame, then column 5: a letter T (upright).

Question 14

Option B is correct: Isometric corner view of a cube showing three faces. TOP face: a square with one corner triangle shaded (turned upside down). LEFT face: a solid circle. RIGHT face: a plus sign. This is what the net folds to when it is turned to show these three faces. Option A is wrong: the a square with one corner triangle shaded has been turned the wrong way. Option C is wrong: a solid circle and a plus sign have swapped places. Option D is wrong: a square with one corner triangle shaded and a plus sign have swapped places. Option E is wrong: a square with one corner triangle shaded and a solid circle have swapped places. **B1**

Answer: B) Isometric corner view of a cube showing three faces. TOP face: a square with one corner triangle shaded (turned upside down). LEFT face: a solid circle. RIGHT face: a plus sign.

Question 15

Option E is correct: Isometric corner view of a cube showing three faces. TOP face: a solid circle. LEFT face: a plus sign. RIGHT face: a square frame. This is what the net folds to when it is turned to show these three faces. Option C is wrong: a chevron appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. Option B is wrong: a letter T appears where a plus sign should be: they are on opposite faces, so they can never meet at a corner. Option A is wrong: a solid circle and a plus sign have swapped places. Option D is wrong: a thick bar appears where a solid circle should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: E) Isometric corner view of a cube showing three faces. TOP face: a solid circle. LEFT face: a plus sign. RIGHT face: a square frame.

Question 16

Option C is correct: Isometric corner view of a cube showing three faces. TOP face: a diagonal cross. LEFT face: a thick bar (upright). RIGHT face: two dots on a diagonal (turned a quarter turn). This is what the net folds to when it is turned to show these three faces. Option E is wrong: a capital F appears where a diagonal cross should be: they are on opposite faces, so they can never meet at a corner. Option D is wrong: a thick bar and two dots on a diagonal have swapped places. Option B is wrong: a diagonal cross and two dots on a diagonal have swapped places. Option A is wrong: a diagonal cross and a thick bar have swapped places. **B1**

Answer: C) Isometric corner view of a cube showing three faces. TOP face: a diagonal cross. LEFT face: a thick bar (upright). RIGHT face: two dots on a diagonal (turned a quarter turn).

Question 17

Option E is correct: it folds to a cube with a solid circle on the top, a plus sign on the left, a capital F (turned a quarter turn clockwise) on the right. Option C is wrong: when folded, a solid circle and a plus sign have swapped places. Option B is wrong: when folded, the a capital F has been turned the wrong way. Option D is wrong: when folded, a solid circle and a capital F have swapped places. Option A is wrong: when folded, a plus sign and a capital F have swapped places. **B1**

Answer: E) Net of six squares. Row 1 (from the top): column 4: a capital F (upright). Row 2 (from the top): column 1: an L shape with a long upright stroke and a short foot (turned upside down), then column 2: a letter T (turned a quarter turn anticlockwise), then column 3: a solid circle, then column 4: a plus sign. Row 3 (from the top): column 4: a skew block shape (two offset bars) (upright).

Question 18

Option B is correct: it folds to a cube with an arrow (turned upside down) on the top, a flag on a pole (upright) on the left, a quarter disc (upright) on the right. Option C is wrong: when folded, the a flag on a pole has been turned the wrong way. Option D is wrong: when folded, the an arrow has been turned the wrong way. Option A is wrong: when folded, the a flag on a pole has been turned the wrong way. Option E is wrong: when folded, the a quarter disc has been turned the wrong way. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 3: a square frame, then column 4: an L shape with a long upright stroke and a short foot (upright). Row 2 (from the top): column 2: a quarter disc (turned a quarter turn anticlockwise), then column 3: a diagonal cross. Row 3 (from the top): column 1: an arrow (turned a quarter turn clockwise), then column 2: a flag on a pole (turned a quarter turn anticlockwise).

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Question 19

Option C is correct: it folds to a cube with a skew block shape (two offset bars) (turned a quarter turn) on the top, a square with a dot in one corner (upright) on the left, a diamond on the right. Option A is wrong: when folded, the a square with a dot in one corner has been turned the wrong way. Option B is wrong: when folded, the a skew block shape (two offset bars) is shown as a mirror image. Option E is wrong: when folded, the a square with a dot in one corner has been turned the wrong way. Option D is wrong: when folded, the a skew block shape (two offset bars) has been turned the wrong way. **B1**

Answer: C) Net of six squares. Row 1 (from the top): column 4: a solid circle. Row 2 (from the top): column 1: a diamond, then column 2: a square with a dot in one corner (turned upside down), then column 3: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise), then column 4: a triangle (turned upside down). Row 3 (from the top): column 2: a skew block shape (two offset bars) (turned a quarter turn).

Question 20

Option A is correct: Isometric corner view of a cube showing three faces. TOP face: a plus sign. LEFT face: a ring. RIGHT face: a flag on a pole (turned a quarter turn clockwise). This is what the net folds to when it is turned to show these three faces. Option B is wrong: a ring and a flag on a pole have swapped places. Option C is wrong: a square frame appears where a plus sign should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: an arrow appears where a flag on a pole should be: they are on opposite faces, so they can never meet at a corner. Option D is wrong: a plus sign and a flag on a pole have swapped places. **B1**

Answer: A) Isometric corner view of a cube showing three faces. TOP face: a plus sign. LEFT face: a ring. RIGHT face: a flag on a pole (turned a quarter turn clockwise).

Question 21

Option B is correct: Isometric corner view of a cube showing three faces. TOP face: a plus sign. LEFT face: a half disc (turned upside down). RIGHT face: a staircase (turned a quarter turn anticlockwise). This is what the net folds to when it is turned to show these three faces. Option D is wrong: a square frame appears where a staircase should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: a ring appears where a plus sign should be: they are on opposite faces, so they can never meet at a corner. Option C is wrong: a plus sign and a half disc have swapped places. Option A is wrong: an arrow appears where a half disc should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: B) Isometric corner view of a cube showing three faces. TOP face: a plus sign. LEFT face: a half disc (turned upside down). RIGHT face: a staircase (turned a quarter turn anticlockwise).

Question 22

Option B is correct: it folds to a cube with a solid circle on the top, a flag on a pole (upright) on the left, a letter T (turned a quarter turn clockwise) on the right. Option E is wrong: when folded, the a letter T has been turned the wrong way. Option D is wrong: when folded, a solid circle and a letter T have swapped places. Option A is wrong: when folded, the a flag on a pole has been turned the wrong way. Option C is wrong: when folded, a flag on a pole and a letter T have swapped places. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 3: a solid circle, then column 4: a skew block shape (two offset bars) (turned a quarter turn). Row 2 (from the top): column 1: a flag on a pole (upright), then column 2: a letter T (turned a quarter turn clockwise), then column 3: a staircase (turned a quarter turn clockwise). Row 3 (from the top): column 1: a diamond.

Question 23

Option E is correct: Isometric corner view of a cube showing three faces. TOP face: a chevron (turned upside down). LEFT face: a staircase (turned a quarter turn clockwise). RIGHT face: an arrow (upright). This is what the net folds to when it is turned to show these three faces. Option A is wrong: a staircase and an arrow have swapped places. Option D is wrong: the an arrow has been turned the wrong way. Option B is wrong: a chevron and an arrow have swapped places. Option C is wrong: the an arrow has been turned the wrong way. **B1**

Answer: E) Isometric corner view of a cube showing three faces. TOP face: a chevron (turned upside down). LEFT face: a staircase (turned a quarter turn clockwise). RIGHT face: an arrow (upright).

Question 24

Option D is correct: Isometric corner view of a cube showing three faces. TOP face: a solid circle. LEFT face: an arrow (turned upside down). RIGHT face: a square frame. This is what the net folds to when it is turned to show these three faces. Option C is wrong: a capital F appears where an arrow should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: a triangle appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. Option B is wrong: a solid circle and a square frame have swapped places. Option A is wrong: a diamond appears where a solid circle should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: D) Isometric corner view of a cube showing three faces. TOP face: a solid circle. LEFT face: an arrow (turned upside down). RIGHT face: a square frame.

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Question 25

Option B is correct: it folds to a cube with an arrow (turned a quarter turn clockwise) on the top, a staircase (turned upside down) on the left, a diagonal cross on the right. Option A is wrong: when folded, the an arrow has been turned the wrong way. Option E is wrong: when folded, an arrow and a staircase have swapped places. Option D is wrong: when folded, the an arrow has been turned the wrong way. Option C is wrong: when folded, a staircase and a diagonal cross have swapped places. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 1: an arrow (turned a quarter turn clockwise), then column 2: a diagonal cross. Row 2 (from the top): column 2: a staircase (turned a quarter turn clockwise), then column 3: a ring, then column 4: a flag on a pole (turned upside down). Row 3 (from the top): column 2: a square with a dot in one corner (turned a quarter turn anticlockwise).

Question 26

Option A is correct: Isometric corner view of a cube showing three faces. TOP face: a square frame. LEFT face: a skew block shape (two offset bars) (upright). RIGHT face: a chevron (turned upside down). This is what the net folds to when it is turned to show these three faces. Option B is wrong: a skew block shape (two offset bars) and a chevron have swapped places. Option C is wrong: a flag on a pole appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. Option D is wrong: a plus sign appears where a skew block shape (two offset bars) should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: a solid circle appears where a chevron should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: A) Isometric corner view of a cube showing three faces. TOP face: a square frame. LEFT face: a skew block shape (two offset bars) (upright). RIGHT face: a chevron (turned upside down).

Question 27

Option B is correct: Isometric corner view of a cube showing three faces. TOP face: a skew block shape (two offset bars) (turned a quarter turn). LEFT face: a triangle (turned a quarter turn clockwise). RIGHT face: a letter T (upright). This is what the net folds to when it is turned to show these three faces. Option D is wrong: a square frame appears where a skew block shape (two offset bars) should be: they are on opposite faces, so they can never meet at a corner. Option A is wrong: a skew block shape (two offset bars) and a triangle have swapped places. Option E is wrong: a diagonal cross appears where a triangle should be: they are on opposite faces, so they can never meet at a corner. Option C is wrong: a solid circle appears where a letter T should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: B) Isometric corner view of a cube showing three faces. TOP face: a skew block shape (two offset bars) (turned a quarter turn). LEFT face: a triangle (turned a quarter turn clockwise). RIGHT face: a letter T (upright).

Question 28

Option B is correct: Isometric corner view of a cube showing three faces. TOP face: a staircase (upright). LEFT face: a diamond. RIGHT face: a square with a dot in one corner (turned upside down). This is what the net folds to when it is turned to show these three faces. Option A is wrong: the a square with a dot in one corner has been turned the wrong way. Option C is wrong: the a staircase is shown as a mirror image. Option D is wrong: the a staircase has been turned the wrong way. Option E is wrong: a staircase and a square with a dot in one corner have swapped places. **B1**

Answer: B) Isometric corner view of a cube showing three faces. TOP face: a staircase (upright). LEFT face: a diamond. RIGHT face: a square with a dot in one corner (turned upside down).

Question 29

Option A is correct: it folds to a cube with a flag on a pole (upright) on the top, a plus sign on the left, a quarter disc (turned a quarter turn anticlockwise) on the right. Option B is wrong: when folded, the a quarter disc has been turned the wrong way. Option D is wrong: when folded, a flag on a pole and a quarter disc have swapped places. Option C is wrong: when folded, a flag on a pole and a plus sign have swapped places. Option E is wrong: when folded, a plus sign and a quarter disc have swapped places. **B1**

Answer: A) Net of six squares. Row 1 (from the top): column 3: a flag on a pole (turned a quarter turn anticlockwise), then column 4: a plus sign. Row 2 (from the top): column 1: a quarter disc (turned a quarter turn anticlockwise), then column 2: a solid circle, then column 3: a letter T (turned a quarter turn clockwise). Row 3 (from the top): column 1: an L shape with a long upright stroke and a short foot (turned upside down).

Question 30

Option D is correct: it folds to a cube with a plus sign on the top, an arrow (turned a quarter turn anticlockwise) on the left, a capital F (turned a quarter turn anticlockwise) on the right. Option C is wrong: when folded, the an arrow has been turned the wrong way. Option A is wrong: when folded, the an arrow has been turned the wrong way. Option E is wrong: when folded, the a capital F has been turned the wrong way. Option B is wrong: when folded, the a capital F has been turned the wrong way. **B1**

Answer: D) Net of six squares. Row 1 (from the top): column 3: a plus sign, then column 4: a capital F (turned upside down), then column 5: a solid circle. Row 2 (from the top): column 1: a flag on a pole (turned a quarter turn anticlockwise), then column 2: a quarter disc (turned a quarter turn clockwise), then column 3: an arrow (turned a quarter turn anticlockwise).

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Question 31

Option B is correct: it folds to a cube with an arrow (turned a quarter turn anticlockwise) on the top, two dots on a diagonal (upright) on the left, a half disc (turned upside down) on the right. Option A is wrong: when folded, the an arrow has been turned the wrong way. Option E is wrong: when folded, the a half disc has been turned the wrong way. Option C is wrong: when folded, the an arrow has been turned the wrong way. Option D is wrong: when folded, the a half disc has been turned the wrong way. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 1: a half disc (turned upside down), then column 2: a skew block shape (two offset bars) (upright). Row 2 (from the top): column 2: a square with one corner triangle shaded (turned a quarter turn clockwise), then column 3: a flag on a pole (turned upside down), then column 4: an arrow (turned a quarter turn anticlockwise). Row 3 (from the top): column 2: two dots on a diagonal (upright).

Question 32

Option C is correct: Isometric corner view of a cube showing three faces. TOP face: an arrow (turned a quarter turn anticlockwise). LEFT face: a flag on a pole (turned upside down). RIGHT face: a skew block shape (two offset bars) (turned a quarter turn). This is what the net folds to when it is turned to show these three faces. Option D is wrong: an arrow and a flag on a pole have swapped places. Option E is wrong: an arrow and a skew block shape (two offset bars) have swapped places. Option A is wrong: the an arrow has been turned the wrong way. Option B is wrong: a flag on a pole and a skew block shape (two offset bars) have swapped places. **B1**

Answer: C) Isometric corner view of a cube showing three faces. TOP face: an arrow (turned a quarter turn anticlockwise). LEFT face: a flag on a pole (turned upside down). RIGHT face: a skew block shape (two offset bars) (turned a quarter turn).

Question 33

Option D is correct: Isometric corner view of a cube showing three faces. TOP face: a square frame. LEFT face: a letter T (turned a quarter turn anticlockwise). RIGHT face: a solid circle. This is what the net folds to when it is turned to show these three faces. Option B is wrong: a square frame and a letter T have swapped places. Option C is wrong: a plus sign appears where a letter T should be: they are on opposite faces, so they can never meet at a corner. Option A is wrong: a capital F appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: a staircase appears where a solid circle should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: D) Isometric corner view of a cube showing three faces. TOP face: a square frame. LEFT face: a letter T (turned a quarter turn anticlockwise). RIGHT face: a solid circle.

Question 34

Option D is correct: it folds to a cube with a flag on a pole (turned a quarter turn anticlockwise) on the top, an arrow (upright) on the left, a solid circle on the right. Option A is wrong: when folded, the an arrow has been turned the wrong way. Option B is wrong: when folded, a flag on a pole and a solid circle have swapped places. Option E is wrong: when folded, an arrow and a solid circle have swapped places. Option C is wrong: when folded, a flag on a pole and an arrow have swapped places. **B1**

Answer: D) Net of six squares. Row 1 (from the top): column 4: an L shape with a long upright stroke and a short foot (turned upside down). Row 2 (from the top): column 1: a flag on a pole (upright), then column 2: a thick bar (upright), then column 3: a square frame, then column 4: an arrow (turned a quarter turn clockwise). Row 3 (from the top): column 4: a solid circle.

Question 35

Option B is correct: it folds to a cube with a half disc (turned a quarter turn anticlockwise) on the top, a square frame on the left, a diamond on the right. Option E is wrong: when folded, a solid circle appears where a half disc should be: they are on opposite faces, so they can never meet at a corner. Option D is wrong: when folded, a half disc and a diamond have swapped places. Option C is wrong: when folded, a flag on a pole appears where a diamond should be: they are on opposite faces, so they can never meet at a corner. Option A is wrong: when folded, an L shape with a long upright stroke and a short foot appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 1: a diamond, then column 2: a square frame. Row 2 (from the top): column 2: a half disc (turned a quarter turn clockwise). Row 3 (from the top): column 2: an L shape with a long upright stroke and a short foot (turned a quarter turn clockwise), then column 3: a flag on a pole (upright). Row 4 (from the top): column 3: a solid circle.

Question 36

Option E is correct: Isometric corner view of a cube showing three faces. TOP face: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise). LEFT face: a thick bar (upright). RIGHT face: a solid circle. This is what the net folds to when it is turned to show these three faces. Option B is wrong: a quarter disc appears where a solid circle should be: they are on opposite faces, so they can never meet at a corner. Option C is wrong: an L shape with a long upright stroke and a short foot and a solid circle have swapped places. Option D is wrong: a diamond appears where a thick bar should be: they are on opposite faces, so they can never meet at a corner. Option A is wrong: a square frame appears where an L shape with a long upright stroke and a short foot should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: E) Isometric corner view of a cube showing three faces. TOP face: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise). LEFT face: a thick bar (upright). RIGHT face: a solid circle.

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Question 37

Option A is correct: Isometric corner view of a cube showing three faces. TOP face: a ring. LEFT face: a diagonal cross. RIGHT face: a flag on a pole (turned a quarter turn clockwise). This is what the net folds to when it is turned to show these three faces. Option E is wrong: the a flag on a pole has been turned the wrong way. Option C is wrong: a ring and a diagonal cross have swapped places. Option D is wrong: the a flag on a pole is shown as a mirror image. Option B is wrong: the a flag on a pole has been turned the wrong way. **B1**

Answer: A) Isometric corner view of a cube showing three faces. TOP face: a ring. LEFT face: a diagonal cross. RIGHT face: a flag on a pole (turned a quarter turn clockwise).

Question 38

Option B is correct: it folds to a cube with a thick bar (turned a quarter turn) on the top, an arrow (turned a quarter turn anticlockwise) on the left, a flag on a pole (turned a quarter turn clockwise) on the right. Option A is wrong: when folded, a thick bar and an arrow have swapped places. Option C is wrong: when folded, an arrow and a flag on a pole have swapped places. Option D is wrong: when folded, the a flag on a pole has been turned the wrong way. Option E is wrong: when folded, the a flag on a pole has been turned the wrong way. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 2: an arrow (turned upside down). Row 2 (from the top): column 2: a square frame. Row 3 (from the top): column 1: a thick bar (upright), then column 2: a diamond, then column 3: two dots on a diagonal (upright). Row 4 (from the top): column 1: a flag on a pole (turned a quarter turn clockwise).

Question 39

Option E is correct: it folds to a cube with an arrow (turned a quarter turn clockwise) on the top, a flag on a pole (turned a quarter turn clockwise) on the left, a half disc (turned a quarter turn anticlockwise) on the right. Option C is wrong: when folded, the a half disc has been turned the wrong way. Option B is wrong: when folded, the an arrow has been turned the wrong way. Option A is wrong: when folded, the a flag on a pole has been turned the wrong way. Option D is wrong: when folded, the a half disc has been turned the wrong way. **B1**

Answer: E) Net of six squares. Row 1 (from the top): column 2: a capital F (upright). Row 2 (from the top): column 1: a skew block shape (two offset bars) (upright), then column 2: a half disc (turned a quarter turn clockwise). Row 3 (from the top): column 2: an arrow (upright), then column 3: a flag on a pole (upright). Row 4 (from the top): column 3: a square with a dot in one corner (turned a quarter turn anticlockwise).

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