4.7 Cube Nets: 1-hour Pack

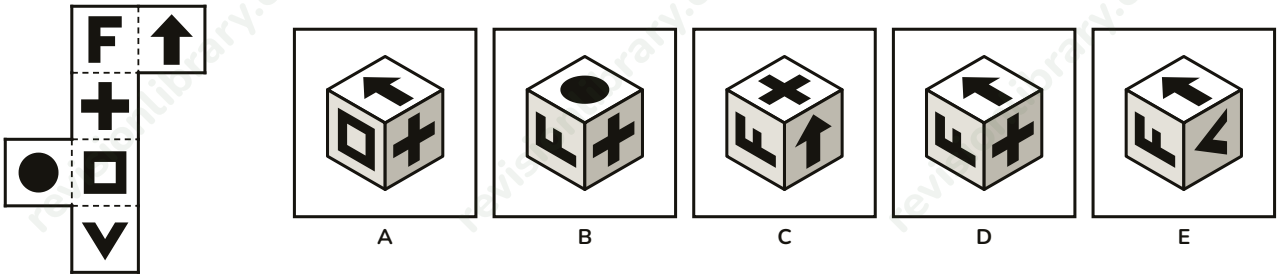
GL ASSESSMENT GL-EP.N9 · Calculators not allowed · about 60 minutes

Total Marks

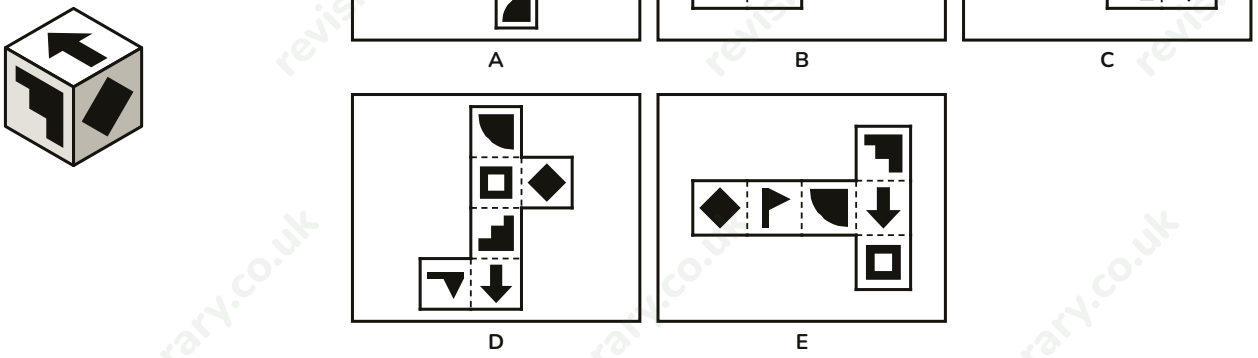
Name: _____ Date: ____ / ____ / _____

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?



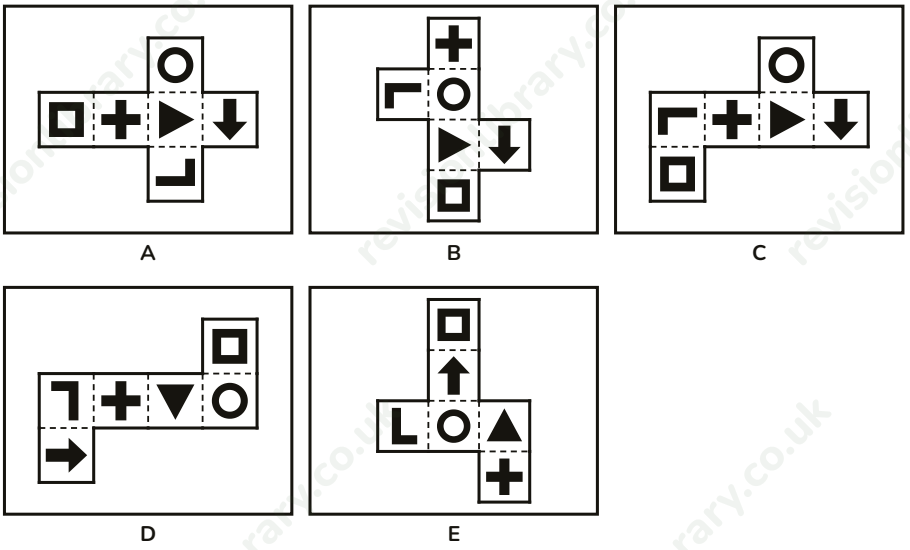
2 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



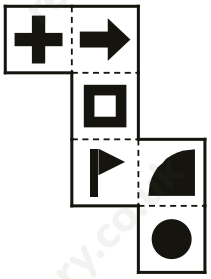
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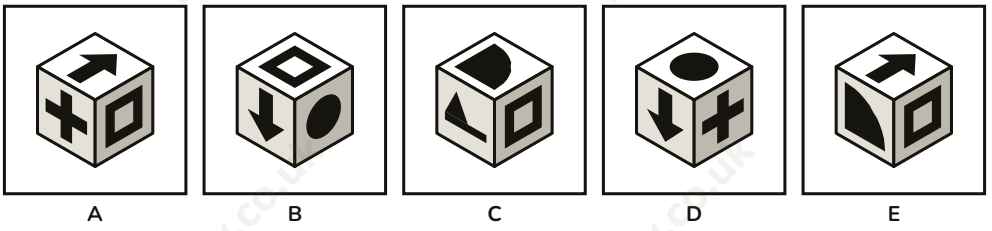
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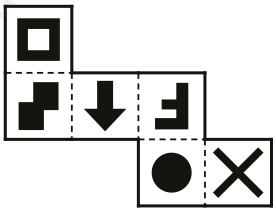


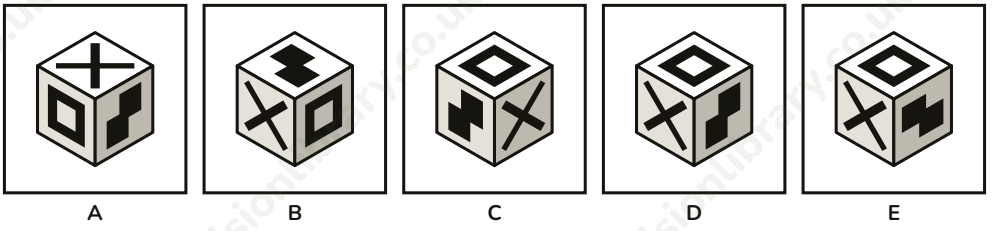
4 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?





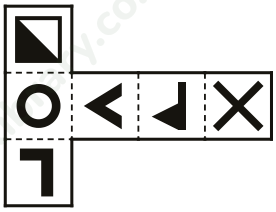
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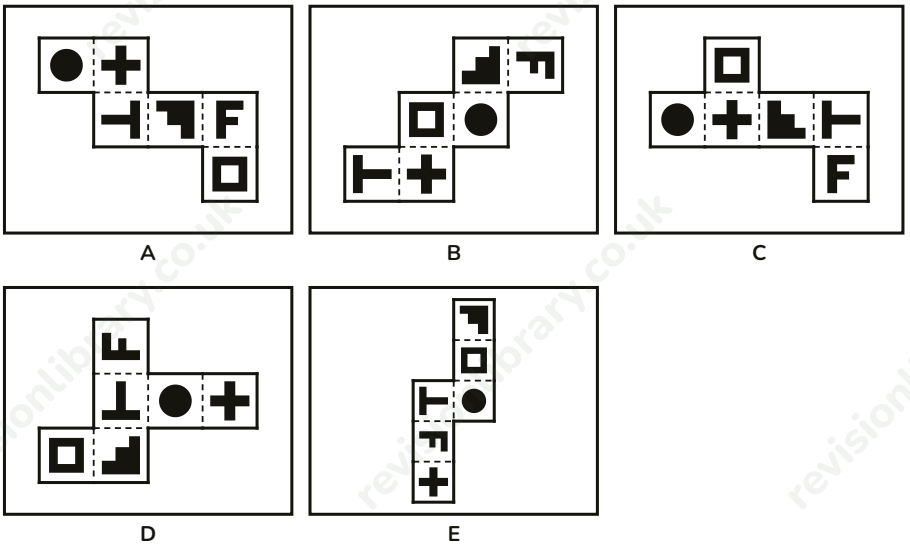




A B C D E

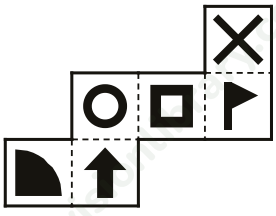
7 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?





A B C D E

8 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?

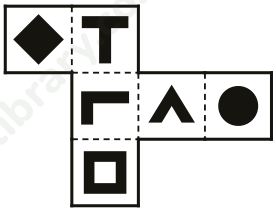


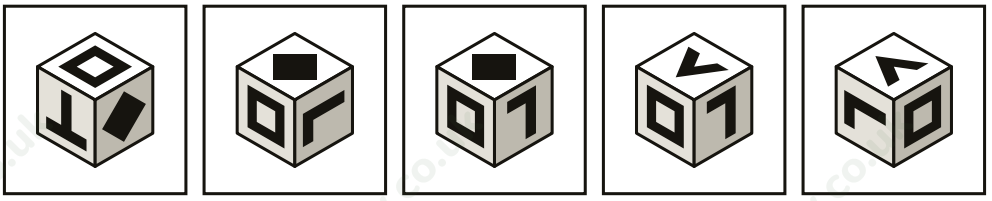


A B C D E

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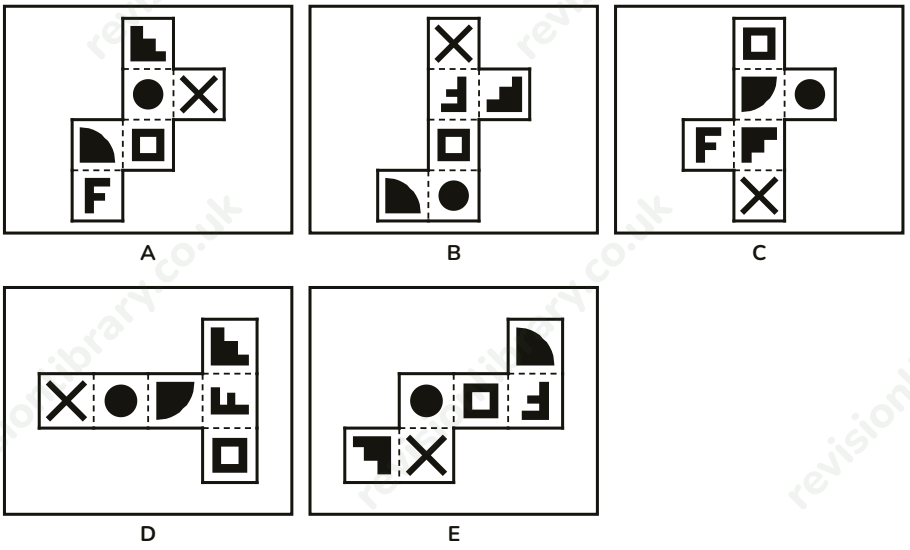




A B C D E

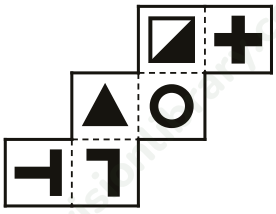
10 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?





A B C D E

11 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?

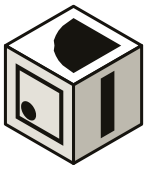


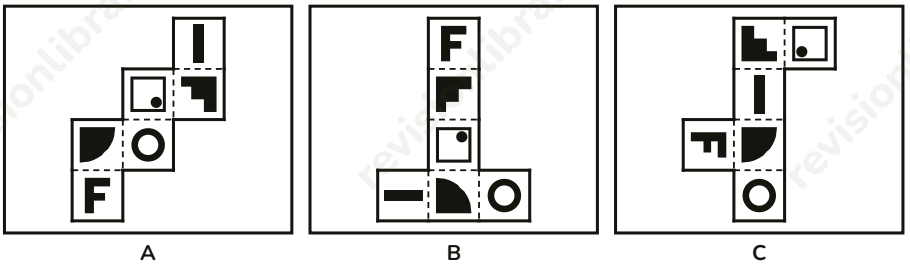


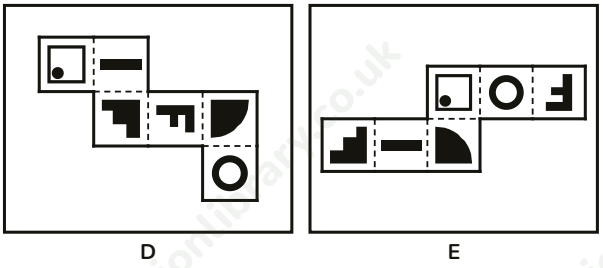
A B C D E

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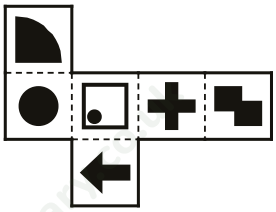
12 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?

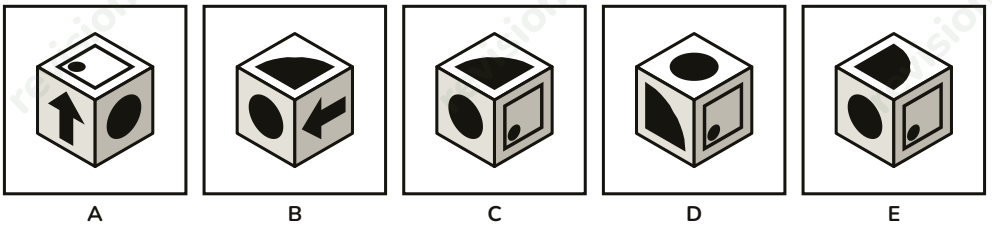






13 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?

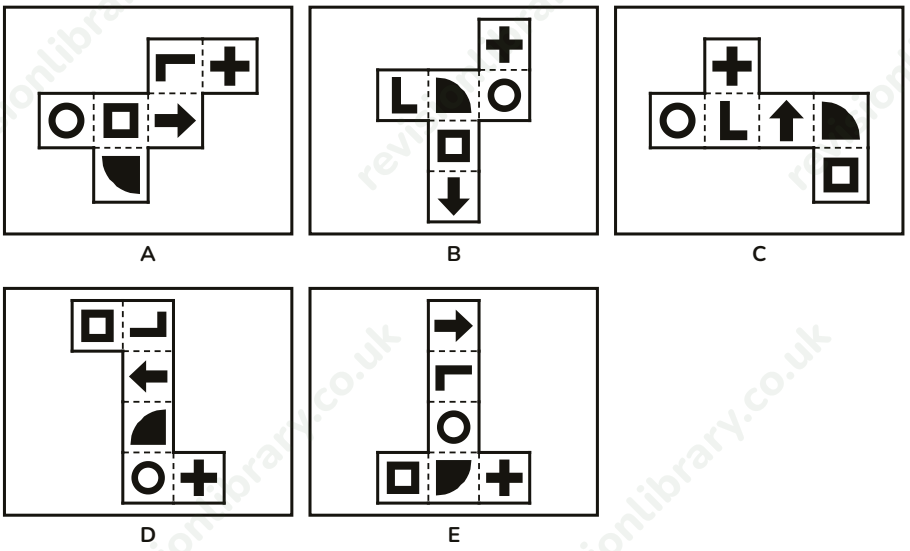




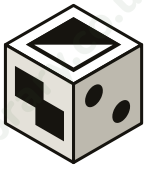
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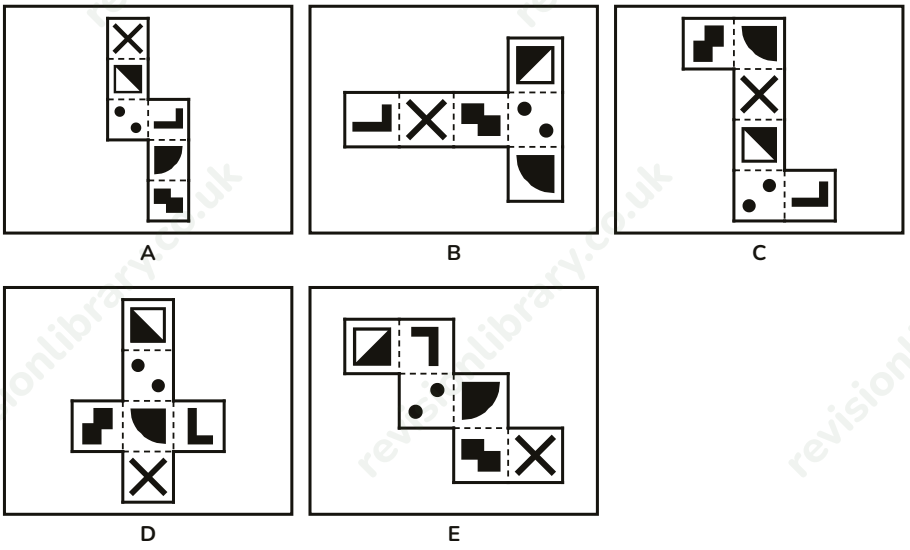
14 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



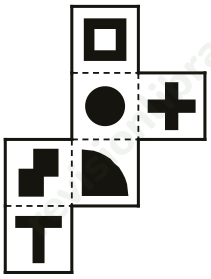


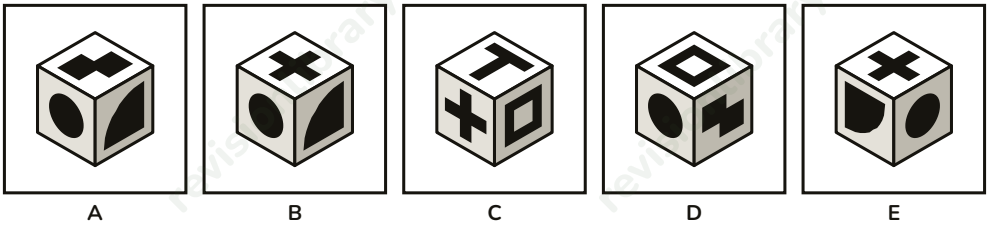
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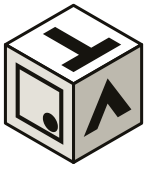
16 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?

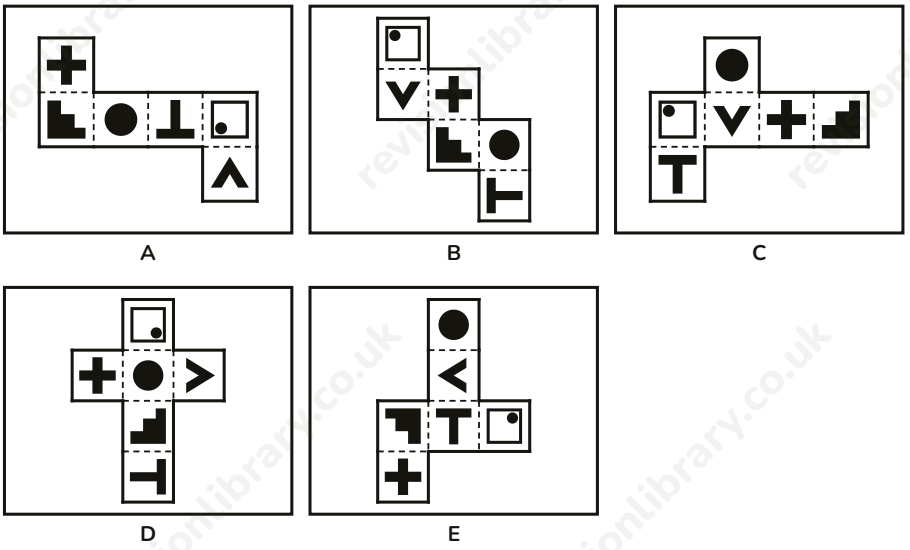




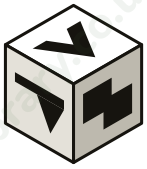
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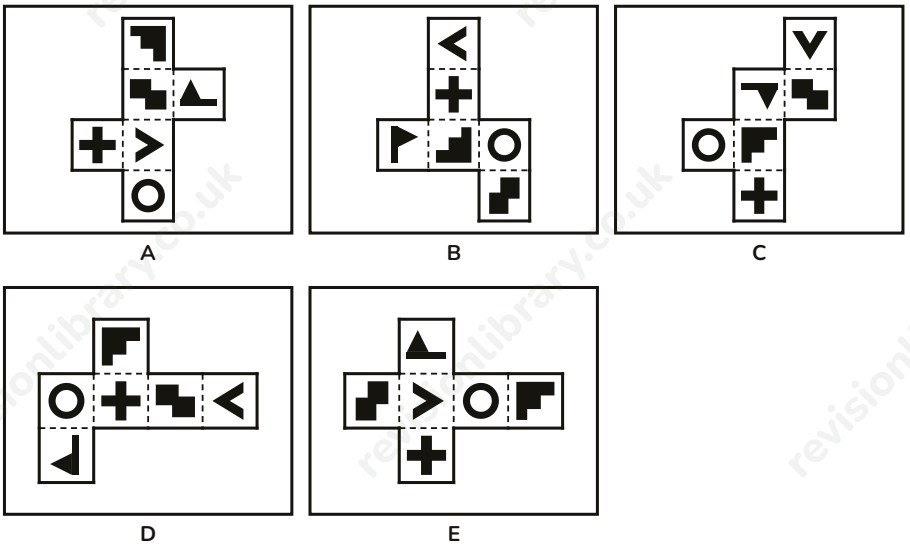
17 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



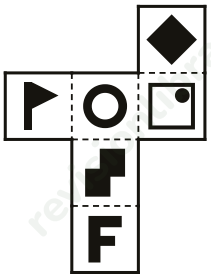


18





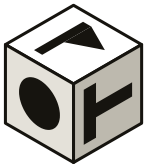
19 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?

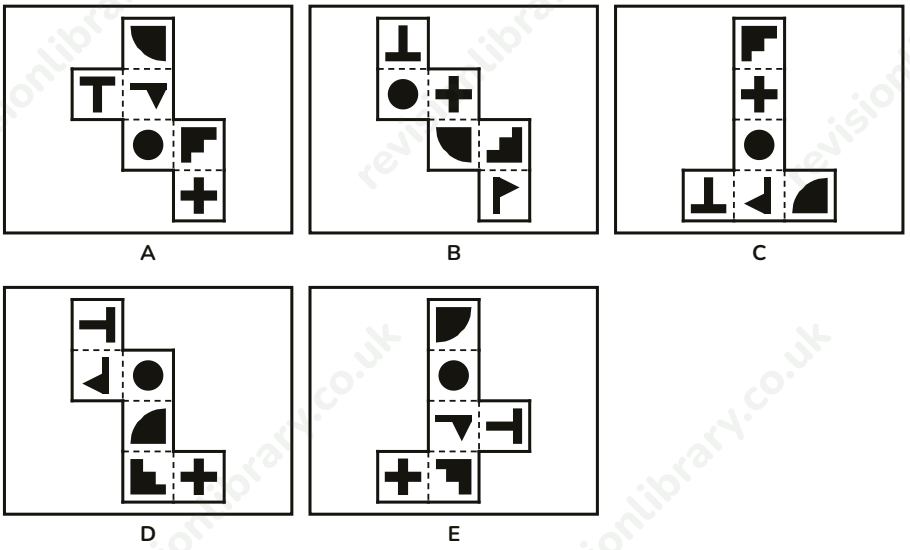




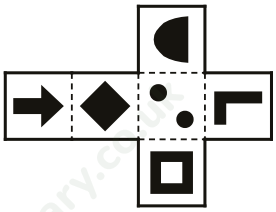
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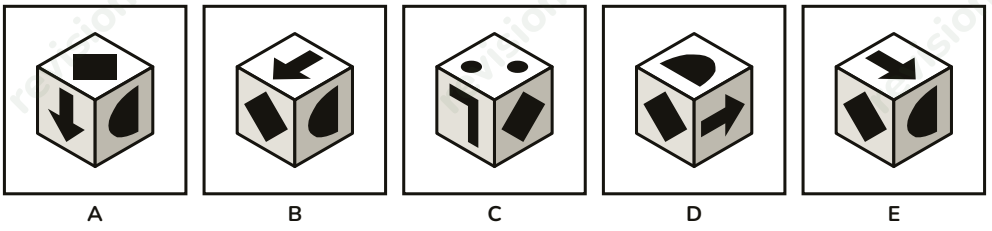
20 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?





21 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?

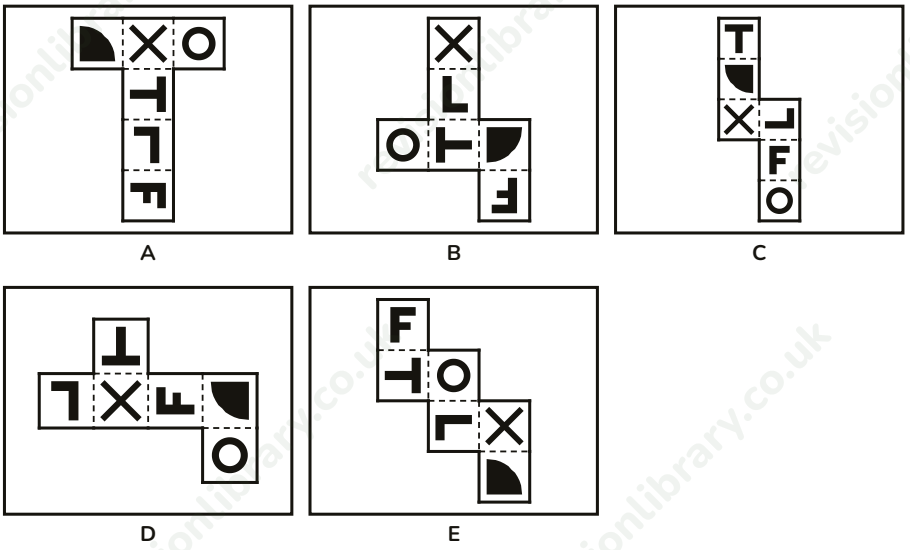




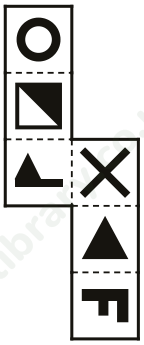
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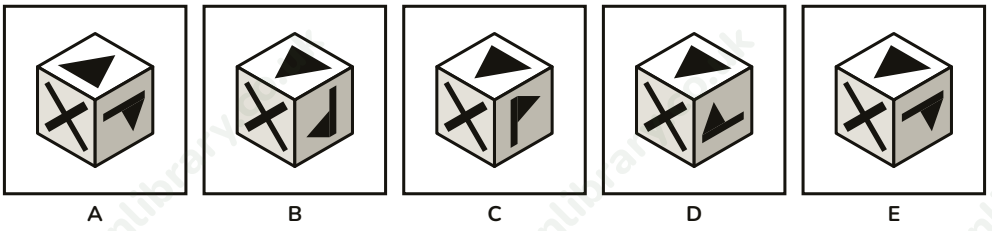
22 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?





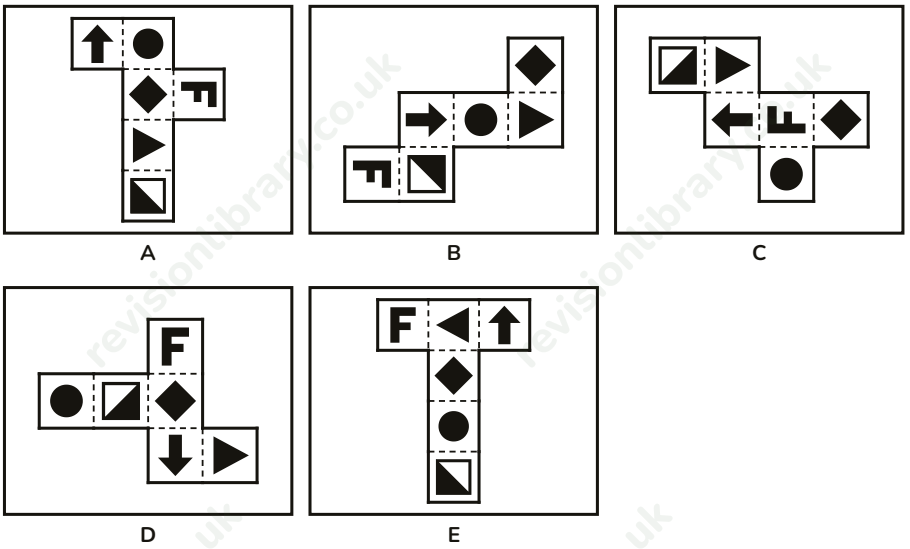
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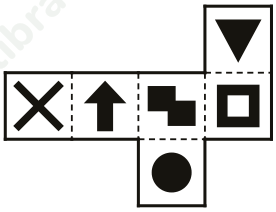
24 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?

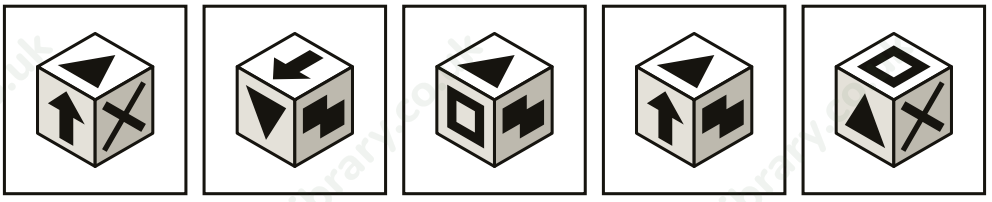




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25 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?

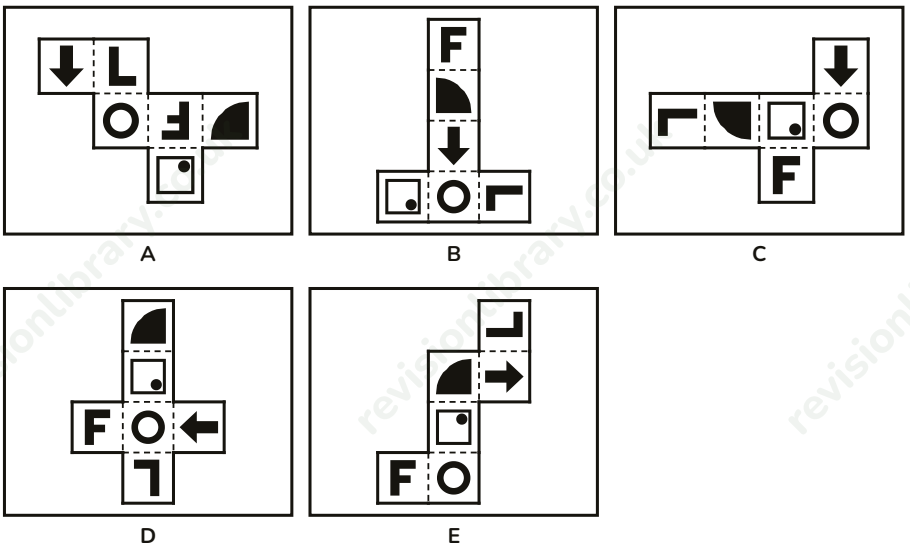




A B C D E

26 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?

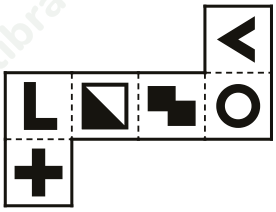


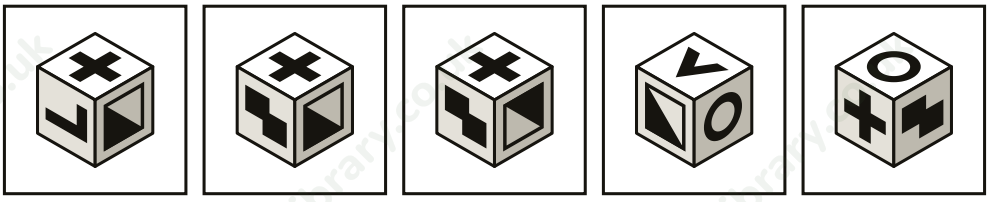


A B C D E

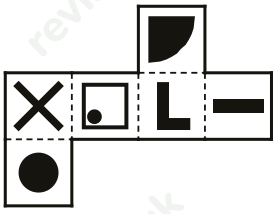
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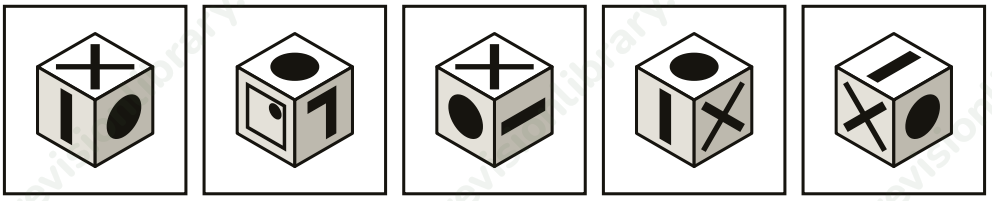
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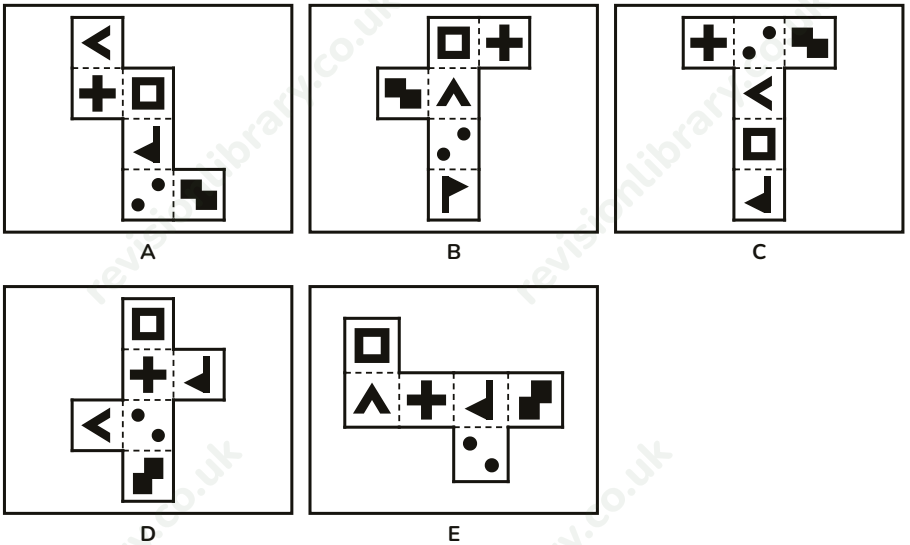
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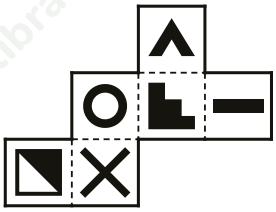
29 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?

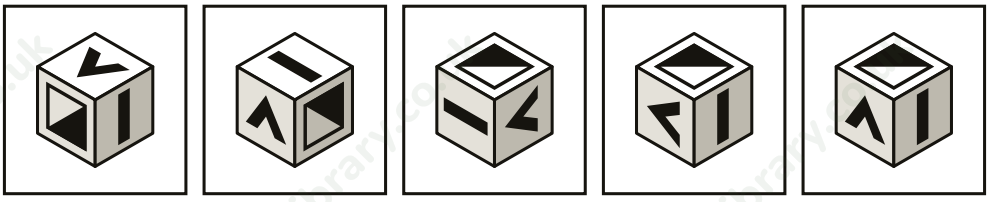




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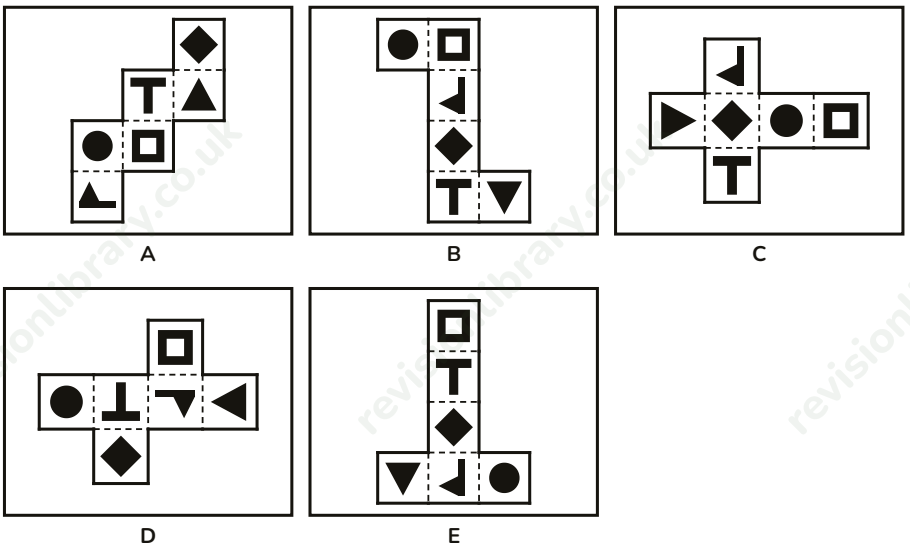




A B C D E

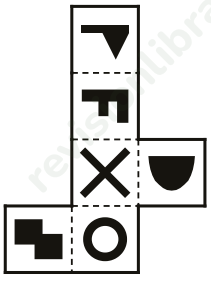
31 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?





A B C D E

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?



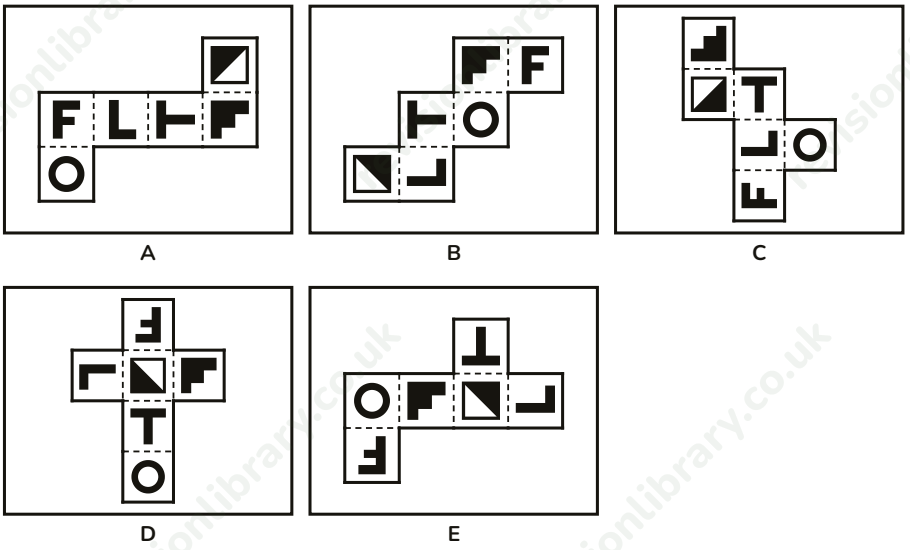


A B C D E

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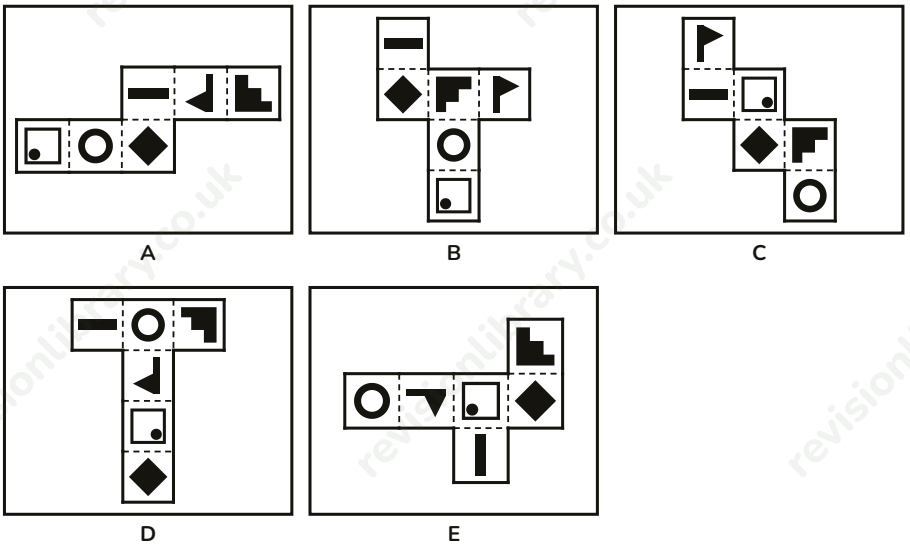
33 The cube in the diagram shows three of its faces, with the symbols on the outside. Which net, A to E, folds along the dotted lines to make this cube?



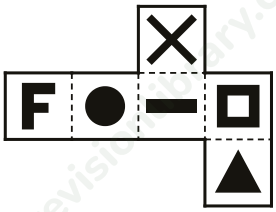


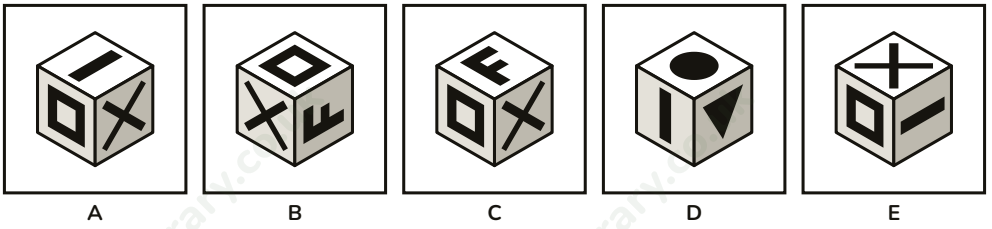
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35 The flat net in the diagram is folded along the dotted lines to make a cube, with the symbols on the outside. Each option shows a cube from a corner, with its top, left and right faces in view. Which option, A to E, could be the resulting cube?

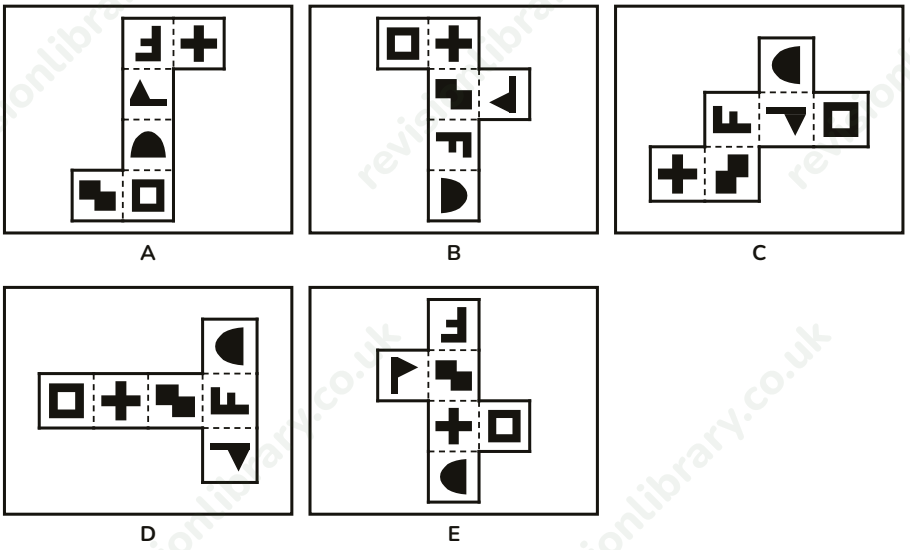




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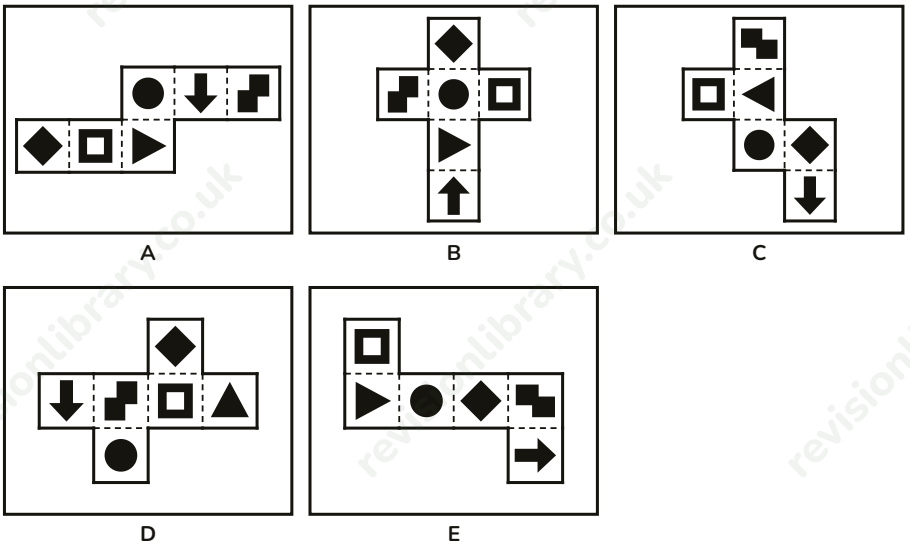
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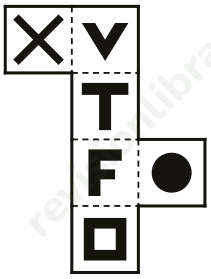


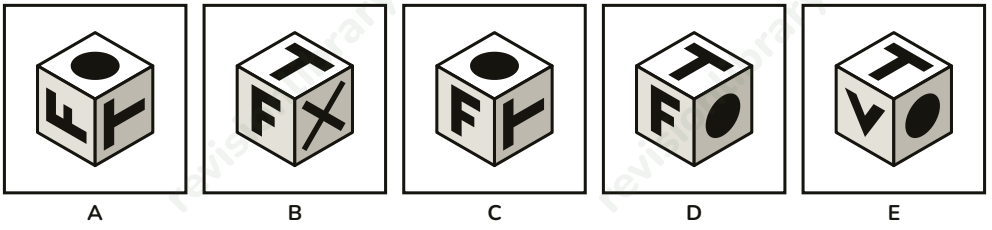
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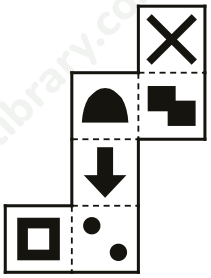
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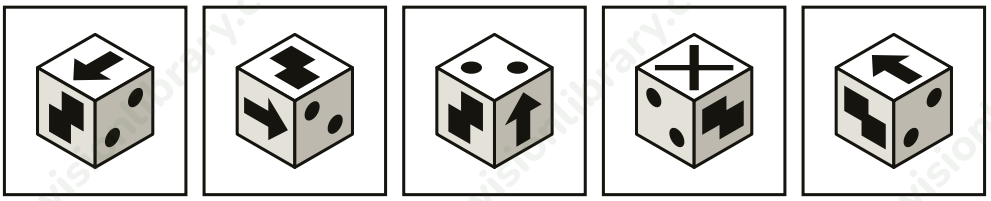




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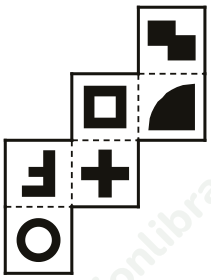
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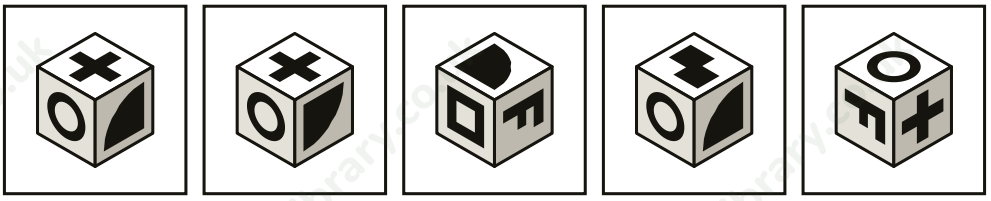




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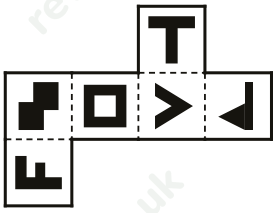
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A B C D E

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A B C D E

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Mark scheme · 4.7 Cube Nets: 1-hour Pack

Question 1

Option D is correct: Isometric corner view of a cube showing three faces. TOP face: an arrow (turned a quarter turn anticlockwise). LEFT face: a capital F (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 E is wrong: a chevron appears where a plus sign should be: they are on opposite faces, so they can never meet at a corner. Option C is wrong: an arrow and a plus sign have swapped places. Option B is wrong: a solid circle appears where an arrow should be: they are on opposite faces, so they can never meet at a corner. Option A is wrong: a square frame appears where a capital F 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: an arrow (turned a quarter turn anticlockwise). LEFT face: a capital F (turned a quarter turn anticlockwise). RIGHT face: a plus sign.

Question 2

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

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

Question 3

Option E is correct: it folds to a cube with a plus sign on the top, an L shape with a long upright stroke and a short foot (turned upside down) on the left, a square frame on the right. Option C is wrong: when folded, the an L shape with a long upright stroke and a short foot has been turned the wrong way. Option D is wrong: when folded, a plus sign and a square frame have swapped places. Option A is wrong: when folded, an L shape with a long upright stroke and a short foot and a square frame have swapped places. Option B is wrong: when folded, a plus sign and an L shape with a long upright stroke and a short foot have swapped places. **B1**

Answer: E) Net of six squares. Row 1 (from the top): column 2: a square frame. Row 2 (from the top): column 2: an arrow (upright). Row 3 (from the top): column 1: an L shape with a long upright stroke and a short foot (upright), then column 2: a ring, then column 3: a triangle (upright). Row 4 (from the top): column 3: a plus sign.

Question 4

Option A is correct: Isometric corner view of a cube showing three faces. TOP face: an arrow (upright). 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 flag on a pole appears where an arrow should be: they are on opposite faces, so they can never meet at a corner. Option B is wrong: a plus sign and a square frame have swapped places. Option E is wrong: a quarter disc appears where a plus sign should be: they are on opposite faces, so they can never meet at a corner. Option D is wrong: an arrow and a plus sign have swapped places. **B1**

Answer: A) Isometric corner view of a cube showing three faces. TOP face: an arrow (upright). LEFT face: a plus sign. RIGHT face: a square frame.

Question 5

Option D is correct: Isometric corner view of a cube showing three faces. TOP face: a square frame. LEFT face: a diagonal cross. 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 A is wrong: a square frame and a diagonal cross have swapped places. Option B is wrong: a square frame and a skew block shape (two offset bars) have swapped places. Option C is wrong: a diagonal cross and a skew block shape (two offset bars) have swapped places. Option E is wrong: the a skew block shape (two offset bars) has been turned the wrong way. **B1**

Answer: D) Isometric corner view of a cube showing three faces. TOP face: a square frame. LEFT face: a diagonal cross. RIGHT face: a skew block shape (two offset bars) (turned a quarter turn).

Question 6

Option C is correct: Isometric corner view of a cube showing three faces. TOP face: a diagonal cross. LEFT face: a square with one corner triangle shaded (upright). 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 A is wrong: the a square with one corner triangle shaded has been turned the wrong way. Option B is wrong: the a square with one corner triangle shaded has been turned the wrong way. Option D is wrong: the a square with one corner triangle shaded has been turned the wrong way. **B1**

Answer: C) Isometric corner view of a cube showing three faces. TOP face: a diagonal cross. LEFT face: a square with one corner triangle shaded (upright). RIGHT face: a flag on a pole (turned a quarter turn clockwise).

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Question 7

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

Answer: E) Net of six squares. Row 1 (from the top): column 2: a staircase (turned a quarter turn anticlockwise). Row 2 (from the top): column 2: a square frame. Row 3 (from the top): column 1: a letter T (turned a quarter turn anticlockwise), then column 2: a solid circle. Row 4 (from the top): column 1: a capital F (turned a quarter turn clockwise). Row 5 (from the top): column 1: a plus sign.

Question 8

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

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

Question 9

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

Answer: C) Isometric corner view of a cube showing three faces. TOP face: a diamond. LEFT face: a square frame. RIGHT face: an L shape with a long upright stroke and a short foot (turned upside down).

Question 10

Option A is correct: it folds to a cube with a quarter disc (upright) on the top, a capital F (upright) on the left, a square frame on the right. Option D is wrong: when folded, a solid circle appears where a capital F should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: when folded, a diagonal cross appears where a quarter disc should be: they are on opposite faces, so they can never meet at a corner. Option C is wrong: when folded, a staircase appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. Option B is wrong: when folded, a quarter disc and a square frame have swapped places. **B1**

Answer: A) Net of six squares. Row 1 (from the top): column 2: a staircase (turned a quarter turn clockwise). Row 2 (from the top): column 2: a solid circle, then column 3: a diagonal cross. Row 3 (from the top): column 1: a quarter disc (upright), then column 2: a square frame. Row 4 (from the top): column 1: a capital F (upright).

Question 11

Option D 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 clockwise). LEFT face: a letter T (upright). 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 letter T has been turned the wrong way. Option C is wrong: an L shape with a long upright stroke and a short foot and a plus sign have swapped places. Option E is wrong: an L shape with a long upright stroke and a short foot and a letter T have swapped places. Option B is wrong: a letter T and a plus sign have swapped places. **B1**

Answer: D) 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 clockwise). LEFT face: a letter T (upright). RIGHT face: a plus sign.

Question 12

Option B is correct: it folds to a cube with a quarter disc (turned upside down) on the top, a square with a dot in one corner (turned a quarter turn anticlockwise) on the left, a thick bar (turned a quarter turn) on the right. Option A is wrong: when folded, the a quarter disc has been turned the wrong way. Option C 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 thick bar has been turned the wrong way. Option E is wrong: when folded, the a square with a dot in one corner has been turned the wrong way. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 2: a capital F (upright). Row 2 (from the top): column 2: a staircase (turned upside down). Row 3 (from the top): column 2: a square with a dot in one corner (turned a quarter turn clockwise). Row 4 (from the top): column 1: a thick bar (upright), then column 2: a quarter disc (upright), then column 3: a ring.

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Question 13

Option E is correct: Isometric corner view of a cube showing three faces. TOP face: a quarter disc (upright). LEFT face: a solid circle. RIGHT face: a square with a dot in one corner (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 a square with a dot in one corner have swapped places. Option D is wrong: a quarter disc and a solid circle have swapped places. Option B is wrong: a quarter disc and a square with a dot in one corner have swapped places. Option C is wrong: the a quarter disc has been turned the wrong way. **B1**

Answer: E) Isometric corner view of a cube showing three faces. TOP face: a quarter disc (upright). LEFT face: a solid circle. RIGHT face: a square with a dot in one corner (turned a quarter turn anticlockwise).

Question 14

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

Answer: E) Net of six squares. Row 1 (from the top): column 2: an arrow (turned a quarter turn clockwise). Row 2 (from the top): column 2: an L shape with a long upright stroke and a short foot (turned a quarter turn clockwise). Row 3 (from the top): column 2: a ring. Row 4 (from the top): column 1: a square frame, then column 2: a quarter disc (turned a quarter turn clockwise), then column 3: a plus sign.

Question 15

Option A is correct: it folds to a cube with a square with one corner triangle shaded (upright) on the top, a skew block shape (two offset bars) (upright) on the left, two dots on a diagonal (upright) on the right. Option B is wrong: when folded, the a square with one corner triangle shaded has been turned the wrong way. Option C is wrong: when folded, the two dots on a diagonal has been turned the wrong way. Option D is wrong: when folded, the a square with one corner triangle shaded has been turned the wrong way. Option E is wrong: when folded, the a square with one corner triangle shaded has been turned the wrong way. **B1**

Answer: A) Net of six squares. Row 1 (from the top): column 1: a diagonal cross. Row 2 (from the top): column 1: a square with one corner triangle shaded (turned a quarter turn clockwise). Row 3 (from the top): column 1: two dots on a diagonal (upright), then column 2: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise). Row 4 (from the top): column 2: a quarter disc (turned a quarter turn clockwise). Row 5 (from the top): column 2: a skew block shape (two offset bars) (upright).

Question 16

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

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

Question 17

Option D is correct: it folds to a cube with a letter T (turned a quarter turn clockwise) on the top, a square with a dot in one corner (turned upside down) on the left, a chevron (turned upside down) on the right. Option A is wrong: when folded, a letter T and a square with a dot in one corner have swapped places. Option C is wrong: when folded, a square with a dot in one corner and a chevron have swapped places. Option E is wrong: when folded, the a chevron has been turned the wrong way. Option B is wrong: when folded, a letter T and a chevron have swapped places. **B1**

Answer: D) Net of six squares. Row 1 (from the top): column 2: a square with a dot in one corner (turned upside down). Row 2 (from the top): column 1: a plus sign, then column 2: a solid circle, then column 3: a chevron (turned a quarter turn anticlockwise). Row 3 (from the top): column 2: a staircase (upright). Row 4 (from the top): column 2: a letter T (turned a quarter turn clockwise).

Question 18

Option C is correct: it folds to a cube with a chevron (turned a quarter turn anticlockwise) on the top, a flag on a pole (turned a quarter turn clockwise) on the left, a skew block shape (two offset bars) (upright) on the right. Option A is wrong: when folded, the a chevron has been turned the wrong way. Option B is wrong: when folded, a flag on a pole and a skew block shape (two offset bars) have swapped places. Option D is wrong: when folded, a chevron and a flag on a pole have swapped places. Option E is wrong: when folded, the a chevron has been turned the wrong way. **B1**

Answer: C) Net of six squares. Row 1 (from the top): column 3: a chevron (upright). Row 2 (from the top): column 2: a flag on a pole (turned a quarter turn clockwise), then column 3: a skew block shape (two offset bars) (upright). Row 3 (from the top): column 1: a ring, then column 2: a staircase (turned upside down). Row 4 (from the top): column 2: a plus sign.

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Question 19

Option E is correct: Isometric corner view of a cube showing three faces. TOP face: a capital F (turned upside down). LEFT face: a skew block shape (two offset bars) (turned a quarter turn). 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 C is wrong: the a skew block shape (two offset bars) has been turned the wrong way. Option B is wrong: the a capital F has been turned the wrong way. Option D is wrong: the a capital F has been turned the wrong way. Option A is wrong: the a flag on a pole has been turned the wrong way. **B1**

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

Question 20

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

Answer: B) Net of six squares. Row 1 (from the top): column 1: a letter T (turned upside down). Row 2 (from the top): column 1: a solid circle, then column 2: a plus sign. Row 3 (from the top): column 2: a quarter disc (turned upside down), then column 3: a staircase (upright). Row 4 (from the top): column 3: a flag on a pole (upright).

Question 21

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

Answer: B) Isometric corner view of a cube showing three faces. TOP face: an arrow (turned upside down). LEFT face: a diamond. RIGHT face: a half disc (turned upside down).

Question 22

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

Answer: B) Net of six squares. Row 1 (from the top): column 2: a diagonal cross. Row 2 (from the top): column 2: an L shape with a long upright stroke and a short foot (upright). Row 3 (from the top): column 1: a ring, then column 2: a letter T (turned a quarter turn anticlockwise), then column 3: a quarter disc (turned a quarter turn clockwise). Row 4 (from the top): column 3: a capital F (turned upside down).

Question 23

Option E is correct: Isometric corner view of a cube showing three faces. TOP face: a triangle (turned upside down). 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 B is wrong: the a flag on a pole has been turned the wrong way. Option D is wrong: the a flag on a pole has been turned the wrong way. Option A is wrong: the a triangle has been turned the wrong way. Option C is wrong: the a flag on a pole has been turned the wrong way. **B1**

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

Question 24

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

Answer: A) Net of six squares. Row 1 (from the top): column 1: an arrow (upright), then column 2: a solid circle. Row 2 (from the top): column 2: a diamond, then column 3: a capital F (turned a quarter turn clockwise). Row 3 (from the top): column 2: a triangle (turned a quarter turn clockwise). Row 4 (from the top): column 2: a square with one corner triangle shaded (turned a quarter turn anticlockwise).

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Question 25

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

Question 26

Option C is correct: it folds to a cube with a square with a dot in one corner (turned upside down) on the top, a capital F (upright) on the left, a ring on the right. Option D 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 capital F has been turned the wrong way. Option E is wrong: when folded, the a square with a dot in one corner has been turned the wrong way. Option A is wrong: when folded, the a square with a dot in one corner has been turned the wrong way. **B1**

Answer: C) Net of six squares. Row 1 (from the top): column 4: an arrow (turned upside down). Row 2 (from the top): column 1: an L shape with a long upright stroke and a short foot (turned a quarter turn clockwise), then column 2: a quarter disc (turned upside down), then column 3: a square with a dot in one corner (turned upside down), then column 4: a ring. Row 3 (from the top): column 3: a capital F (upright).

Question 27

Option C 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 square with one corner triangle shaded (turned a quarter turn clockwise). This is what the net folds to when it is turned to show these three faces. Option D is wrong: a skew block shape (two offset bars) and a square with one corner triangle shaded have swapped places. Option E is wrong: a plus sign and a skew block shape (two offset bars) have swapped places. Option A is wrong: a plus sign and a square with one corner triangle shaded have swapped places. Option B is wrong: the a square with one corner triangle shaded has been turned the wrong way. **B1**

Answer: C) 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 square with one corner triangle shaded (turned a quarter turn clockwise).

Question 28

Option A is correct: Isometric corner view of a cube showing three faces. TOP face: a diagonal cross. LEFT face: a thick bar (turned a quarter turn). 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 thick bar and a solid circle have swapped places. Option B is wrong: a square with a dot in one corner appears where a thick bar should be: they are on opposite faces, so they can never meet at a corner. Option E is wrong: a diagonal cross and a thick bar have swapped places. Option D is wrong: a diagonal cross and a solid circle have swapped places. **B1**

Answer: A) Isometric corner view of a cube showing three faces. TOP face: a diagonal cross. LEFT face: a thick bar (turned a quarter turn). RIGHT face: a solid circle.

Question 29

Option D is correct: it folds to a cube with two dots on a diagonal (turned a quarter turn) on the top, a chevron (upright) on the left, a skew block shape (two offset bars) (turned a quarter turn) on the right. Option E is wrong: when folded, the two dots on a diagonal has been turned the wrong way. Option C is wrong: when folded, the a chevron has been turned the wrong way. Option A is wrong: when folded, the a chevron has been turned the wrong way. Option B is wrong: when folded, the a skew block shape (two offset bars) has been turned the wrong way. **B1**

Answer: D) Net of six squares. Row 1 (from the top): column 2: a square frame. Row 2 (from the top): column 2: a plus sign, then column 3: a flag on a pole (turned upside down). Row 3 (from the top): column 1: a chevron (turned a quarter turn clockwise), then column 2: two dots on a diagonal (upright). Row 4 (from the top): column 2: a skew block shape (two offset bars) (turned a quarter turn).

Question 30

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

Answer: E) Isometric corner view of a cube showing three faces. TOP face: a square with one corner triangle shaded (upright). LEFT face: a chevron (turned upside down). RIGHT face: a thick bar (turned a quarter turn).

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Question 31

Option C is correct: it folds to a cube with a square frame on the top, a triangle (turned upside down) on the left, a flag on a pole (turned upside down) on the right. Option E is wrong: when folded, a diamond appears where a square frame should be: they are on opposite faces, so they can never meet at a corner. Option A is wrong: when folded, a letter T 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: when folded, a triangle and a flag on a pole have swapped places. Option B is wrong: when folded, a solid circle appears where a triangle should be: they are on opposite faces, so they can never meet at a corner. **B1**

Answer: C) Net of six squares. Row 1 (from the top): column 2: a flag on a pole (turned upside down). Row 2 (from the top): column 1: a triangle (turned a quarter turn clockwise), then column 2: a diamond, then column 3: a solid circle, then column 4: a square frame. Row 3 (from the top): column 2: a letter T (upright).

Question 32

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

Answer: A) Isometric corner view of a cube showing three faces. TOP face: a ring. LEFT face: a half disc (turned a quarter turn anticlockwise). RIGHT face: a diagonal cross.

Question 33

Option B is correct: it folds to a cube with a ring on the top, a staircase (upright) on the left, a letter T (turned upside down) on the right. Option E is wrong: when folded, the a staircase has been turned the wrong way. Option D is wrong: when folded, the a staircase has been turned the wrong way. Option C is wrong: when folded, the a letter T has been turned the wrong way. Option A is wrong: when folded, the a letter T has been turned the wrong way. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 3: a staircase (turned upside down), then column 4: a capital F (upright). Row 2 (from the top): column 2: a letter T (turned a quarter turn anticlockwise), then column 3: a ring. Row 3 (from the top): column 1: a square with one corner triangle shaded (turned a quarter turn clockwise), then column 2: an L shape with a long upright stroke and a short foot (turned a quarter turn anticlockwise).

Question 34

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

Answer: D) Net of six squares. Row 1 (from the top): column 1: a thick bar (upright), then column 2: a ring, then column 3: a staircase (turned a quarter turn anticlockwise). Row 2 (from the top): column 2: a flag on a pole (turned upside down). Row 3 (from the top): column 2: a square with a dot in one corner (turned upside down). Row 4 (from the top): column 2: a diamond.

Question 35

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

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

Question 36

Option B is correct: it folds to a cube with a flag on a pole (turned a quarter turn clockwise) on the top, a skew block shape (two offset bars) (turned a quarter turn) on the left, a capital F (upright) on the right. Option E is wrong: when folded, the a capital F has been turned the wrong way. Option A is wrong: when folded, a skew block shape (two offset bars) and a capital F have swapped places. Option C is wrong: when folded, a flag on a pole and a capital F have swapped places. Option D is wrong: when folded, a flag on a pole and a skew block shape (two offset bars) have swapped places. **B1**

Answer: B) Net of six squares. Row 1 (from the top): column 1: a square frame, then column 2: a plus sign. Row 2 (from the top): column 2: a skew block shape (two offset bars) (upright), then column 3: a flag on a pole (turned upside down). Row 3 (from the top): column 2: a capital F (turned a quarter turn clockwise). Row 4 (from the top): column 2: a half disc (upright).

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Question 37

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

Answer: E) Net of six squares. Row 1 (from the top): column 1: a square frame. Row 2 (from the top): column 1: a triangle (turned a quarter turn clockwise), then column 2: a solid circle, then column 3: a diamond, then column 4: a skew block shape (two offset bars) (upright). Row 3 (from the top): column 4: an arrow (turned a quarter turn clockwise).

Question 38

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

Question 39

Option C is correct: Isometric corner view of a cube showing three faces. TOP face: two dots on a diagonal (turned a quarter turn). LEFT face: a skew block shape (two offset bars) (turned a quarter turn). 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: two dots on a diagonal and an arrow have swapped places. Option B is wrong: the two dots on a diagonal has been turned the wrong way. Option D is wrong: two dots on a diagonal and a skew block shape (two offset bars) have swapped places. Option E is wrong: a skew block shape (two offset bars) and an arrow have swapped places. **B1**

Answer: C) Isometric corner view of a cube showing three faces. TOP face: two dots on a diagonal (turned a quarter turn). LEFT face: a skew block shape (two offset bars) (turned a quarter turn). RIGHT face: an arrow (upright).

Question 40

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

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

Question 41

Option D is correct: Isometric corner view of a cube showing three faces. TOP face: a chevron (turned a quarter turn clockwise). LEFT face: a letter T (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 A is wrong: the a letter T has been turned the wrong way. Option B is wrong: the a letter T has been turned the wrong way. Option C is wrong: the a letter T has been turned the wrong way. Option E is wrong: the a chevron has been turned the wrong way. **B1**

Answer: D) Isometric corner view of a cube showing three faces. TOP face: a chevron (turned a quarter turn clockwise). LEFT face: a letter T (turned upside down). RIGHT face: a square frame.

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