

11+ Non-Verbal Reasoning Mock Practice Paper 2

25 questions · suggested time: 30 minutes

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Instructions to Candidates

- ? Time allowed: 30 minutes.
- ? This paper has 25 questions worth 25 marks in total.
- ? Do not turn over or begin until you are ready to start timing yourself.
- ? Attempt every question — if you are unsure, make your best attempt and move on.
- ? Read each question carefully before choosing your answer.
- ? Check your answers against the Answer Key at the end of this paper once your time is up.

Questions

1. A net has five squares arranged in an L-shape: a column of three squares going downward, and two more squares extending to the right from the top square. One final square is attached to the left side of the middle square in the column. Which 3D shape does this net fold into?

- A: Triangular prism
- B: Square-based pyramid
- C: Cube
- D: Cuboid

2. Large light circle -> Small dark circle -> Large light square -> Small dark square -> Large light triangle -> ____

- A: Small dark triangle
- B: Large light triangle
- C: Small light triangle
- D: Large dark triangle

3. Look at the Rotation shown. Which option comes next / completes the pattern?

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="-0.8999999999999986" y="-0.8999999999999986" width="57.8" height="57.8" transform="rotate(90 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="-0.8999999999999986" y="-0.8999999999999986" width="57.8" height="57.8" transform="rotate(180 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="-0.8999999999999986" y="-0.8999999999999986" width="57.8" height="57.8" transform="rotate(0 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="-0.8999999999999986" y="-0.8999999999999986" width="57.8" height="57.8" transform="rotate(315 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="-0.8999999999999986" y="-0.8999999999999986" width="57.8" height="57.8" transform="rotate(135 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
```

4. A large black rectangle relates to a large black rectangle with a horizontal line through its middle, in the same way that a large black oval relates to which of the following?

- A: a large white oval with a horizontal line through its middle
- B: a large black oval with a vertical line through its middle
- C: a large black rectangle with a horizontal line through its middle

D: a large black oval with a horizontal line through its middle

5. Look at the Odd One Out Shapes shown. Which option comes next / completes the pattern?

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="7.600000000000001" y="7.600000000000001" width="40.8" height="40.8" transform="rotate(90 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="7.600000000000001" y="7.600000000000001" width="40.8" height="40.8" transform="rotate(90 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="7.600000000000001" y="7.600000000000001" width="40.8" height="40.8" transform="rotate(90 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="7.600000000000001" y="7.600000000000001" width="40.8" height="40.8" transform="rotate(90 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><rect x="-0.8999999999999986" y="-0.8999999999999986" width="57.8" height="57.8" transform="rotate(90 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
```

6. Look at the 2?2 grid. Top-left: arrow pointing right. Top-right: arrow pointing down. Bottom-left: arrow pointing left. Bottom-right: ?

- A: arrow pointing right
- B: arrow pointing up
- C: arrow pointing left
- D: arrow pointing down

7. Look at the Shape Analogies shown. Which option comes next / completes the pattern?

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><polygon points="1.70,44.97 8.00,29.69 -2.72,17.10 13.76,18.38 22.42,4.30 26.30,20.36 42.37,24.25 28.29,32.90 29.56,49.38 16.98,38.67" fill="#4c1d95" /><polygon points="20.36,44.97 26.67,29.69 15.95,17.10 32.43,18.38 41.09,4.30 44.97,20.36 61.04,24.25 46.96,32.90 48.23,49.38 35.64,38.67" fill="#4c1d95" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch" patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95" stroke-width="1.5"/></pattern></defs><g><polygon points="2.67,28.00 12.84,23.77 13.72,12.78 20.89,21.15 31.61,18.60 25.87,28.00 31.61,37.40 20.89,34.85 13.72,43.22 12.84,32.23" fill="#4c1d95" /><polygon points="21.33,28.00 31.51,23.77 32.39,12.78 39.56,21.15 50.28,18.60 44.53,28.00 50.28,37.40 39.56,34.85 32.39,43.22 31.51,32.23" fill="#4c1d95" /></g></svg>
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```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
```

```

patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><polygon points="7.35,39.31 11.56,29.13 4.41,20.74
15.40,21.58 21.17,12.20 23.76,22.91 34.47,25.50 25.08,31.27 25.93,42.26 17.54,35.11" fill="none"
stroke="#4c1d95" stroke-width="2" /><polygon points="26.02,39.31 30.22,29.13 23.08,20.74
34.06,21.58 39.84,12.20 42.42,22.91 53.14,25.50 43.75,31.27 44.60,42.26 36.21,35.11" fill="none"
stroke="#4c1d95" stroke-width="2" /></g></svg>
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patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><polygon points="2.69,39.31 6.89,29.13 -0.26,20.74
10.73,21.58 16.50,12.20 19.09,22.91 29.80,25.50 20.42,31.27 21.26,42.26 12.87,35.11" fill="#4c1d95"
/><polygon points="16.69,39.31 20.89,29.13 13.74,20.74 24.73,21.58 30.50,12.20 33.09,22.91
43.80,25.50 34.42,31.27 35.26,42.26 26.87,35.11" fill="#4c1d95" /><polygon points="30.69,39.31
34.89,29.13 27.74,20.74 38.73,21.58 44.50,12.20 47.09,22.91 57.80,25.50 48.42,31.27 49.26,42.26
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stroke-width="1.5"/></pattern></defs><g><polygon points="7.35,39.31 11.56,29.13 4.41,20.74
15.40,21.58 21.17,12.20 23.76,22.91 34.47,25.50 25.08,31.27 25.93,42.26 17.54,35.11" fill="#4c1d95"
/><polygon points="26.02,39.31 30.22,29.13 23.08,20.74 34.06,21.58 39.84,12.20 42.42,22.91
53.14,25.50 43.75,31.27 44.60,42.26 36.21,35.11" fill="#4c1d95" /></g></svg>

```

8. Look at the Odd One Out Shapes shown. Which option comes next / completes the pattern?

```

<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><rect x="14.4" y="14.4" width="27.2" height="27.2"
transform="rotate(225 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><rect x="7.600000000000001" y="7.600000000000001"
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stroke-width="1.5"/></pattern></defs><g><rect x="14.4" y="14.4" width="27.2" height="27.2"
transform="rotate(225 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><rect x="14.4" y="14.4" width="27.2" height="27.2"
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stroke-width="1.5"/></pattern></defs><g><rect x="14.4" y="14.4" width="27.2" height="27.2"
transform="rotate(225 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>

```

9. Look at the Shape Analogies shown. Which option comes next / completes the pattern?

```

<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><rect x="-1.7333333333333307" y="7.600000000000001"
width="40.8" height="40.8" transform="rotate(270 18.666666666666668 28)" fill="url(#nvrHatch)"

```

```

stroke="#4c1d95" stroke-width="1.5" /><rect x="16.933333333333337" y="7.600000000000001"
width="40.8" height="40.8" transform="rotate(270 37.333333333333336 28)" fill="url(#nvrHatch)"
stroke="#4c1d95" stroke-width="1.5" /></g></svg>
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
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stroke-width="1.5"/></pattern></defs><g><rect x="-6.399999999999999" y="7.600000000000001"
width="40.8" height="40.8" transform="rotate(135 14 28)" fill="url(#nvrHatch)" stroke="#4c1d95"
stroke-width="1.5" /><rect x="7.600000000000001" y="7.600000000000001" width="40.8"
height="40.8" transform="rotate(135 28 28)" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5"
/><rect x="21.6" y="7.600000000000001" width="40.8" height="40.8" transform="rotate(135 42 28)"
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stroke-width="1.5"/></pattern></defs><g><rect x="5.066666666666668" y="14.4" width="27.2"
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stroke-width="1.5"/></pattern></defs><g><rect x="-1.7333333333333307" y="7.600000000000001"
width="40.8" height="40.8" transform="rotate(135 18.666666666666668 28)" fill="url(#nvrHatch)"
stroke="#4c1d95" stroke-width="1.5" /><rect x="16.933333333333337" y="7.600000000000001"
width="40.8" height="40.8" transform="rotate(135 37.333333333333336 28)" fill="url(#nvrHatch)"
stroke="#4c1d95" stroke-width="1.5" /></g></svg>
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
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stroke-width="1.5"/></pattern></defs><g><rect x="-1.7333333333333307" y="7.600000000000001"
width="40.8" height="40.8" transform="rotate(135 18.666666666666668 28)" fill="#4c1d95" /><rect
x="16.933333333333337" y="7.600000000000001" width="40.8" height="40.8" transform="rotate(135
37.333333333333336 28)" fill="#4c1d95" /></g></svg>

```

10. Look at the Shape Analogies shown. Which option comes next / completes the pattern?

```

<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><circle cx="14" cy="28" r="34" fill="#4c1d95" /><circle cx="28"
cy="28" r="34" fill="#4c1d95" /><circle cx="42" cy="28" r="34" fill="#4c1d95" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><circle cx="18.666666666666668" cy="28" r="34" fill="none"
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stroke="#4c1d95" stroke-width="2" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><circle cx="18.666666666666668" cy="28" r="34"
fill="#4c1d95" /><circle cx="37.333333333333336" cy="28" r="34" fill="#4c1d95" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><circle cx="18.666666666666668" cy="28" r="34"
fill="#4c1d95" /><circle cx="37.333333333333336" cy="28" r="34" fill="#4c1d95" /></g></svg>

```



```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
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stroke-width="1.5"/></pattern></defs><g><circle cx="18.666666666666668" cy="28" r="16"
fill="#4c1d95" /><circle cx="37.333333333333336" cy="28" r="16" fill="#4c1d95" /></g></svg>
```

11. A net consists of six identical squares arranged in a cross shape: one square in the centre, four squares attached to each side of the centre square, and one square attached to the bottom of the lower square. Which 3D shape does this net fold into?

- A: Triangular prism
- B: Cube
- C: Square-based pyramid
- D: Cuboid

12. Look at the Odd One Out Shapes shown. Which option comes next / completes the pattern?

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><polygon points="16.69,39.31 23.86,12.55 43.45,32.14"
fill="#4c1d95" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
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stroke-width="1.5"/></pattern></defs><g><polygon points="16.69,39.31 23.86,12.55 43.45,32.14"
fill="#4c1d95" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
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stroke-width="1.5"/></pattern></defs><g><polygon points="16.69,39.31 23.86,12.55 43.45,32.14"
fill="#4c1d95" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><polygon points="16.69,39.31 20.89,29.13 13.74,20.74
24.73,21.58 30.50,12.20 33.09,22.91 43.80,25.50 34.42,31.27 35.26,42.26 26.87,35.11" fill="#4c1d95"
/></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><polygon points="16.69,39.31 23.86,12.55 43.45,32.14"
fill="#4c1d95" /></g></svg>
```

13. Look at the Reflection shown. Which option comes next / completes the pattern?

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><polygon points="44.00,28.00 32.94,43.22 15.06,37.40
15.06,18.60 32.94,12.78" fill="none" stroke="#4c1d95" stroke-width="2" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
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stroke-width="1.5"/></pattern></defs><g><polygon points="39.31,39.31 20.74,42.26 12.20,25.50
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```

```
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stroke-width="1.5"/></pattern></defs><g><polygon points="12.00,28.00 23.06,12.78 40.94,18.60
40.94,37.40 23.06,43.22" fill="none" stroke="#4c1d95" stroke-width="2" /></g></svg>
```

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
```

```

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```

14. Dark square -> Light circle -> Dark triangle -> ____

- A: Light square
- B: Dark circle
- C: Light triangle
- D: Dark square

15. Look at the Shape Analogies shown. Which option comes next / completes the pattern?

```

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stroke-width="1.5"/></pattern></defs><g><circle cx="28" cy="28" r="24" fill="#4c1d95" /></g></svg>

```

16. Look at the Rotation shown. Which option comes next / completes the pattern?

```

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patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
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<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"

```



```
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stroke-width="1.5"/></pattern></defs><g><polygon points="11.03,11.03 51.18,21.79 21.79,51.18"
fill="#4c1d95" /></g></svg>
```

17. Look at the Rotation shown. Which option comes next / completes the pattern?

```
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stroke-width="1.5"/></pattern></defs><g><polygon points="28.00,4.00 50.83,20.58 42.11,47.42
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stroke-width="1.5"/></pattern></defs><g><polygon points="44.97,11.03 49.38,38.90 24.25,51.70
4.30,31.75 17.10,6.62" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
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51.70,24.25 38.90,49.38" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
```

18. Look at the Reflection shown. Which option comes next / completes the pattern?

```
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stroke-width="1.5"/></pattern></defs><g><polygon points="62.00,28.00 38.51,60.34 0.49,47.98
0.49,8.02 38.51,-4.34" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><polygon points="52.04,3.96 58.29,43.44 22.68,61.58
-5.58,33.32 12.56,-2.29" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><polygon points="3.96,3.96 43.44,-2.29 61.58,33.32
33.32,61.58 -2.29,43.44" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><polygon points="52.04,52.04 12.56,58.29 -5.58,22.68
22.68,-5.58 58.29,12.56" fill="url(#nvrHatch)" stroke="#4c1d95" stroke-width="1.5" /></g></svg>
```

19. A large shaded hexagon with a small black dot at its centre relates to a large white hexagon with no dot at its centre, in the same way that a large shaded triangle with a small black dot at its centre relates to which of the following?

- A: a large shaded triangle with no dot at its centre
 B: a large white hexagon with a small black dot at its centre
 C: a large white triangle with no dot at its centre
 D: a large white triangle with a small black dot at its centre

20. Small light square -> Small dark square -> Large dark square -> ?

- A: Large dark circle
 B: Large light square
 C: Small light square
 D: Large dark square

21. A large white triangle points to the left, with a small black dot at its leftmost tip. Which option shows this shape after a 90 degrees clockwise rotation?

- A: A large white triangle pointing upward, with a small black dot at its topmost tip
 B: A large white triangle pointing to the right, with a small black dot at its rightmost tip
 C: A large white triangle pointing downward, with a small black dot at its bottommost tip
 D: A large white triangle pointing to the left, with a small black dot at its leftmost tip

22. Look at the Odd One Out Shapes shown. Which option comes next / completes the pattern?

```
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stroke-width="1.5"/></pattern></defs><g><polygon points="44.97,44.97 29.69,38.67 17.10,49.38
18.38,32.90 4.30,24.25 20.36,20.36 24.25,4.30 32.90,18.38 49.38,17.10 38.67,29.69" fill="#4c1d95"
/></g></svg>
```

```
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/></g></svg>
```

```
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```

```
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/></g></svg>
```

```
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stroke-width="1.5"/></pattern></defs><g><polygon points="44.97,44.97 4.82,34.21 34.21,4.82"
fill="#4c1d95" /></g></svg>
```

23. Look at the Odd One Out Shapes shown. Which option comes next / completes the pattern?

```
<svg viewBox="0 0 56 56" xmlns="http://www.w3.org/2000/svg"><defs><pattern id="nvrHatch"
patternUnits="userSpaceOnUse" width="6" height="6"><path d="M0,6 L6,0" stroke="#4c1d95"
stroke-width="1.5"/></pattern></defs><g><polygon points="3.96,52.04 -4.84,19.20 19.20,-4.84
52.04,3.96 60.84,36.80 36.80,60.84" fill="none" stroke="#4c1d95" stroke-width="2" /></g></svg>
```

```

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stroke-width="1.5"/></pattern></defs><g><polygon points="3.96,52.04 -4.84,19.20 19.20,-4.84
52.04,3.96 60.84,36.80 36.80,60.84" fill="none" stroke="#4c1d95" stroke-width="2" /></g></svg>

```

24. A compass pointing North is rotated 90 degrees clockwise three times. Which direction does it point?

- A: North
- B: East
- C: South
- D: West

25. Look at the Rotation shown. Which option comes next / completes the pattern?

```

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23.10,18.38 31.75,4.30 35.64,20.36 51.70,24.25 37.62,32.90 38.90,49.38 26.31,38.67" fill="none"
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stroke-width="1.5"/></pattern></defs><g><polygon points="28.00,52.00 21.65,36.74 5.17,35.42
17.73,24.66 13.89,8.58 28.00,17.20 42.11,8.58 38.27,24.66 50.83,35.42 34.35,36.74" fill="none"
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stroke-width="1.5"/></pattern></defs><g><polygon points="44.97,11.03 38.67,26.31 49.38,38.90
32.90,37.62 24.25,51.70 20.36,35.64 4.30,31.75 18.38,23.10 17.10,6.62 29.69,17.33" fill="none"
stroke="#4c1d95" stroke-width="2" /></g></svg>
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stroke-width="1.5"/></pattern></defs><g><polygon points="28.00,4.00 34.35,19.26 50.83,20.58
38.27,31.34 42.11,47.42 28.00,38.80 13.89,47.42 17.73,31.34 5.17,20.58 21.65,19.26" fill="none"
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stroke-width="1.5"/></pattern></defs><g><polygon points="52.00,28.00 36.74,34.35 35.42,50.83
24.66,38.27 8.58,42.11 17.20,28.00 8.58,13.89 24.66,17.73 35.42,5.17 36.74,21.65" fill="none"
stroke="#4c1d95" stroke-width="2" /></g></svg>

```

Answer Key

1. C — Six equal squares arranged so they can fold without any faces overlapping will always form a cube. This L-plus-extension arrangement is a valid net of a cube.
2. A — Alternating pattern: large light shape followed by small dark same shape for each type (circle, square, triangle); the pattern completes with small dark triangle.
3. A — Rule: rotate 45 degrees clockwise.
4. D — The relationship is: a horizontal line is added through the middle of the shape, while the shape and fill remain the same. A large black oval gains a horizontal line through its middle.
5. E — Rule: odd one out by size.
6. B — The arrows rotate 90 degrees clockwise through each cell: right -> down -> left -> up. Bottom-right must be an arrow pointing up.
7. E — Rule: A:B::C:? via count-increment.
8. B — Rule: odd one out by size.
9. D — Rule: A:B::C:? via count-increment.
10. D — Rule: A:B::C:? via count-increment.
11. B — A net of six equal squares arranged in a cross folds into a cube, where all faces are identical squares.
12. D — Rule: odd one out by kind.
13. D — Rule: mirror reflection across a vertical axis.
14. A — The sequence alternates shade (dark, light, dark) and cycles through three shapes, so a light square follows the pattern.
15. E — Rule: A:B::C:? via shade-cycle.
16. D — Rule: rotate 180 degrees clockwise.
17. E — Rule: rotate 270 degrees clockwise.
18. C — Rule: mirror reflection across a vertical axis.
19. C — The relationship is: the fill changes from shaded to white, and the inner dot is removed. A large shaded triangle with a central dot becomes a large white triangle with no dot.
20. B — The pattern increases size and alternates shade; the next shape should be large and light.
21. A — For 90 degrees clockwise rotation the direction cycle is up->right->down->left->up. A triangle pointing LEFT therefore rotates to point UP, carrying its tip (black dot) to the topmost position. Option A (triangle pointing upward, dot at topmost tip) is correct. Stored answer C (downward) would only be right for a 90 degrees anticlockwise rotation or a 180 degrees turn of a downward shape — it does not match this rotation.
22. E — Rule: odd one out by kind.
23. D — Rule: odd one out by kind.
24. D — Three 90 degrees clockwise rotations from North: East (90 degrees), South (180 degrees), West (270 degrees).
25. E — Rule: rotate 180 degrees clockwise.

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