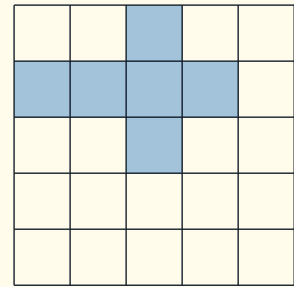


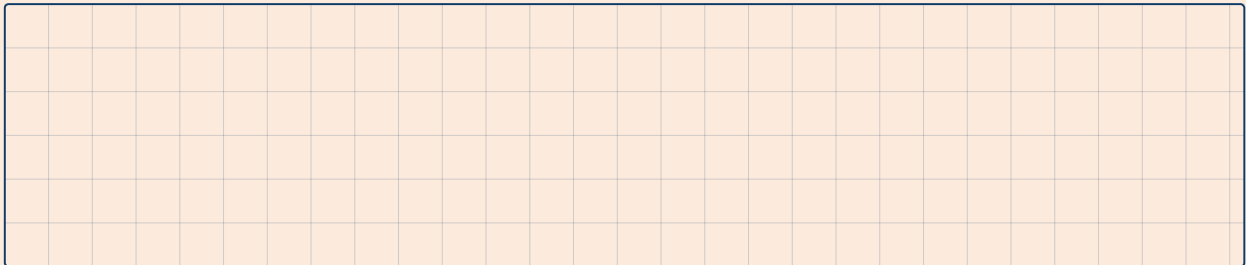
CHECKING A CUBE NET

- 1 The net shows four squares in a row, plus one square above and one below.
- 2 Count the squares: there are 6, and a cube needs exactly 6 faces.
- 3 The row folds up to make the four side walls; the extra squares become the lid and the base with no overlap or gap.
- 4 It closes neatly, so this flat shape is a net of a cube.



WARM-UP

Draw each net on the grid, then decide whether it folds into a cube.



1. Draw a net of 4 squares in a row, with 1 square above the row and 1 below it. Mark the base and the lid.
2. Does the net you drew in 1 fold into a cube? Write Yes or No.
3. Draw 6 squares in one straight line. Does that net fold into a cube? Write Yes or No.

PRACTICE

- 1 Sadhbh is cutting squares to build a cube net for the class model. She needs one flat square for each face. How many squares should she cut?
- 2 Liam lays 6 squares on the grid as 2 rows of 3. Will it close into a cube with no gap and no overlap?



? ALWAYS, SOMETIMES, NEVER

Always true, sometimes true, or never true? Write A, S or N.

- | | |
|--|--|
| a. A cube has 6 faces, 12 edges and 8 vertices. <input type="text"/> | c. A 3D shape has 8 vertices. <input type="text"/> |
| b. A cube and a cuboid have the same number of edges. <input type="text"/> | d. A square-based pyramid has more edges than a cube. <input type="text"/> |

REFLECT

What makes one net fold cleanly into a solid while another overlaps?

