

Line symmetry – finding lines of symmetry

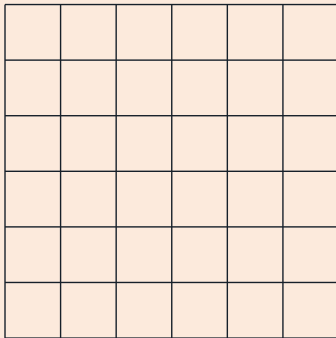
MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION SHAPE & SPACE

HOW TO ANSWER TODAY

- **Lines of symmetry.** A line of symmetry folds the shape so both halves match. Count every direction that works.
 Square → 4 lines (2 middles + 2 diagonals) · Equilateral triangle → 3
- **Transformations.** Slide without turning → translation. Flip (mirror) → reflection. Turn → rotation.
 Triangle slid left → translation · Letter flipped → reflection

TRY IT ON THE LINE

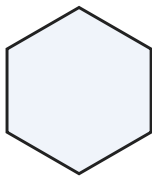
Complete each picture so the mirror line makes it symmetrical.



1. Draw the missing half across the mirror line.
2. Mark any lines of symmetry you can find.
3. Colour the squares so the pattern is symmetrical.

PRACTICE

1



Cian is helping the caretaker paint a regular hexagon shape on the school field for a PE game. He wants to fold a paper copy of the hexagon along all its lines of symmetry. How many lines of symmetry does a regular hexagon have?

2

Cian is drawing a homemade Snakes and Ladders board on a sheet of card. He folds the card along the middle and notices that the shape flips across the horizontal line of symmetry. Is this transformation a translation, a reflection or a rotation?

Name the transformation described: the shape flips across the horizontal line of symmetry. (Choose translation, reflection or rotation.)