

Completing symmetrical patterns across a mirror line

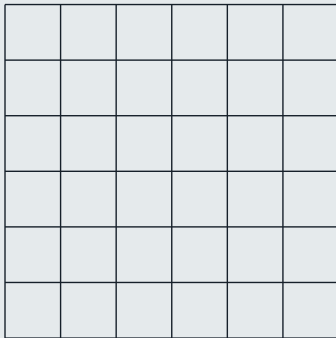
MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION REVIEW

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

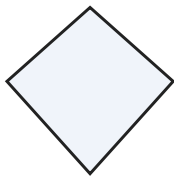
Complete each picture so the mirror line makes it symmetrical.



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.

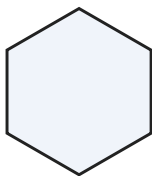
PRACTICE

1



Aoife paints a kite shape on the yard for a new hopscotch game during lunch. She wants to fold a paper copy along every line of symmetry first. How many lines of symmetry does a kite have?

2



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?