

Reflecting a shape across a line

MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION SHAPE & SPACE

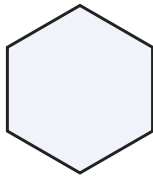
HOW TO ANSWER TODAY

- **Transformations.** Slide without turning → translation. Flip (mirror) → reflection. Turn → rotation.
Triangle slid left → translation · Letter flipped → reflection
- **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

★ STRETCH PROBLEMS

- 1 Aoife paints a shape on one half of the wall-ball court in the yard, then paints a matching shape on the other half so that the shape flips across the vertical line through its centre. Name the transformation she has used. Choose from translation, reflection or rotation.

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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?

