

Line symmetry – finding lines of symmetry

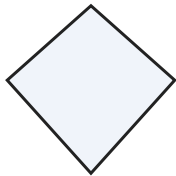
MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION SHAPE & SPACE

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

★ STRETCH PROBLEMS

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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 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.

