

Completing symmetrical patterns across a mirror line

MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION REVIEW

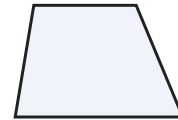
HOW TO ANSWER TODAY

- **Lines of symmetry.** A line of symmetry folds the shape so both halves match. Count every direction that works.

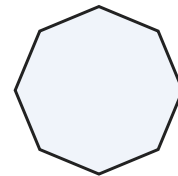
Square → 4 lines (2 middles + 2 diagonals) · Equilateral triangle → 3

★ STRETCH PROBLEMS

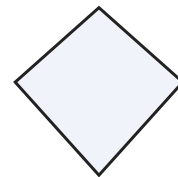
- 1 Cian is helping the caretaker paint a trapezium shape on the school field to mark out a new soccer drill zone. He wants to know how many lines of symmetry a trapezium has. How many lines of symmetry does a trapezium have?



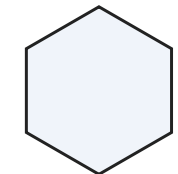
- 2 For his junk-modelling project, Fionn cuts a regular octagon shape from an old cereal box. How many lines of symmetry does the regular octagon have?



- 3 Cian makes a kite in art class to fly at the school sports day. How many lines of symmetry does his kite shape have?



- 4 Cian is painting shapes on the yard beside the giant chess board. He paints a regular hexagon for a beanbag game. How many lines of symmetry does a regular hexagon have?



- 5 In art class, Oisín draws a paving stone shaped like a regular octagon for his plan of the school yard. How many lines of symmetry does his regular octagon have?

