

Reflection in the axes and lines of symmetry

MODULE 8 · LOCATION, TRANSFORMATIONS AND SCALE SHAPE & SPACE

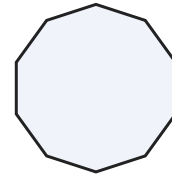
HOW TO ANSWER TODAY

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

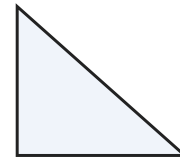
Square → 4 lines (2 middles + 2 diagonals) · Equilateral triangle → 3

★ STRETCH PROBLEMS

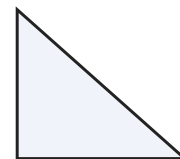
- 1 Mr Ó Briain's 5th class are painting a flower design on a new raised bed in the school garden. The flower's centre is a regular decagon. How many lines of symmetry does a regular decagon have?



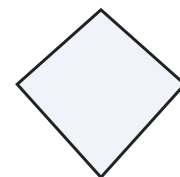
- 2 Cian chinks out a right-angled scalene triangle on the yard as a marker for the mini athletics track. The PE teacher asks the class to check the shape for symmetry. How many lines of symmetry does a right-angled scalene triangle have?



- 3 5th class are painting a triangular banner for the GAA finals day. The banner is shaped like a right-angled scalene triangle, with three sides of different lengths. How many lines of symmetry does the banner have?



- 4 5th class are planning a kite-shaped flowerbed for the school garden. Saoirse wants to mark the lines of symmetry on her sketch before they plant the seeds. How many lines of symmetry does a kite have?



- 5 The 5th class are designing a tile pattern for the floor of the new school polytunnel. Each tile is shaped like a regular hexagon. How many lines of symmetry does a regular hexagon have?

