

Completing symmetrical pictures across a mirror line

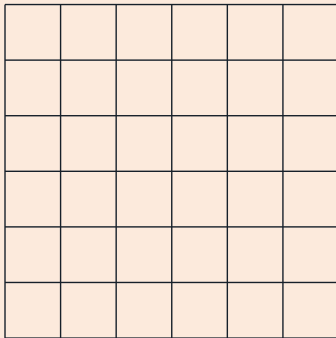
MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION SHAPE & SPACE

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

TRY IT ON THE LINE

Complete each picture so the mirror line makes it symmetrical.

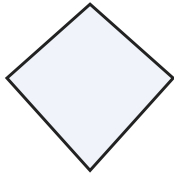


1. Draw the missing half across the mirror line.
2. Mark any lines of symmetry you can find.
3. Colour the squares so the pattern is symmetrical.

PRACTICE

- 1 Aoife paints a 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.

2



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?

