

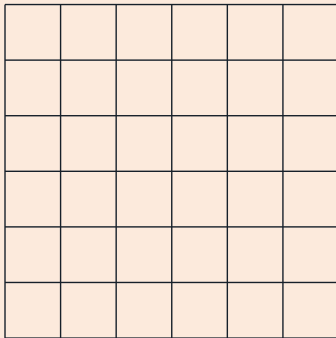
Reflecting a shape across a line

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

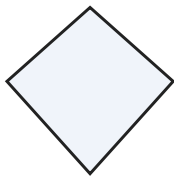
Complete each picture so the mirror line makes it symmetrical.



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 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

Cian is drawing a homemade Snakes and Ladders board on a sheet of card. He folds the card along the middle and notices that the shape flips across the horizontal line of symmetry. Is this transformation a translation, a reflection or a rotation?

Name the transformation described: the shape flips across the horizontal line of symmetry. (Choose translation, reflection or rotation.)

