

Translation — sliding shapes on squared paper

MODULE 8 · SYMMETRY, LOCATION AND TRANSFORMATION REVIEW

HOW TO ANSWER TODAY

- **Transformations.** Slide without turning → translation. Flip (mirror) → reflection. Turn → rotation.
Triangle slid left → translation · Letter flipped → reflection

★ STRETCH PROBLEMS

- 1 For STEM week, Oisín draws his model bridge on squared paper. One corner of the bridge base sits at (2, 6). He slides the whole shape 1 square left and 4 squares up to fit the page. Where is that corner now?
- 2 Cian marks a corner flag on the school pitch at point (2, 2) on the squared plan. The whole pitch is shifted 2 squares right and 2 squares up on the paper. Where is that corner now?
- 3 Cian draws a plan of the classroom on grid paper, with the corner of his desk at (1, 3). He slides the desk 1 square right and 3 squares down on the plan. Where is that corner of the desk now?
- 4 Oisín draws a wall-ball court on squared paper, with one corner at (2, 6). He slides the whole court 5 squares right and 3 squares down to fit it on the yard. Where is that corner now?
- 5 On the giant chess board painted on the yard, Oisín stands on the square marked (5, 3). He slides 5 squares left and 1 square up. Which square is Oisín standing on now?