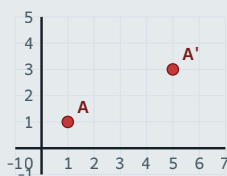


Translating shapes on the co-ordinate plane

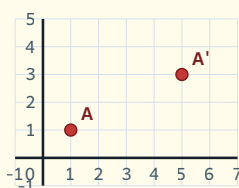
MODULE 8 · LOCATION, TRANSFORMATIONS AND SCALE REVIEW

A **translation** slides a shape without turning or flipping it — every point moves the same distance in the same direction.



→ Translate (2, 1) by 3 right and 2 up → (5, 3).

TRANSLATE A (1, 1) BY 4 RIGHT AND 2 UP



- 1 Add 4 to the x: $1 + 4 = 5$.
- 2 Add 2 to the y: $1 + 2 = 3$.
- 3 The image A' is at **(5, 3)**.

HOW TO ANSWER TODAY

- **Transformations.** Slide without turning → translation. Flip (mirror) → reflection. Turn → rotation.
Triangle slid left → translation · Letter flipped → reflection
- **Quadrants.** Q1 is top-right; numbering goes ANTICLOCKWISE. A point on an axis is on the axis, not in a quadrant.
(3, 5) → Q1 · (-2, 1) → Q2 · (0, 4) → on the y-axis