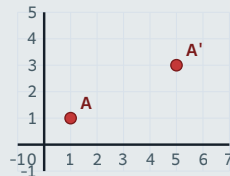


Translating shapes on the co-ordinate plane

WHAT THIS LESSON TEACHES

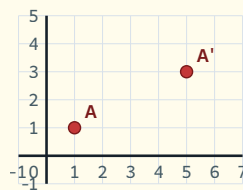
A **translation** slides a shape without turning or flipping it — every point moves the same distance in the same direction.



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

MODEL THIS ON THE BOARD

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).

ANSWER KEY

W1: rotation

W2: translation

W3: translation

W4: translation

Q1: (4, -4) → Q4

Q2: reflection

Q3: reflection

Q4: (-6, 4) → Q2

EXTENSION SHEET · STRETCH ANSWERS

S1: reflection

S2: reflection

S3: (-6, 9) → Q2

S4: (8, -4) → Q4

S5: (-6, 4) → Q2