

**YEAR 5**

Coordinates and Position

Along the corridor, then up the stairs. The first number is always how far across. Getting them the wrong way round is the single most common error in this topic.

Name: _____

Date: _____

Score: _____

Section A • Reading coordinates

Across first, then up.

- 1 A point is 3 across and 5 up. Write its coordinates.

- 2 In the pair (7, 2), which number tells you how far across?

- 3 Write the coordinates of the origin.

- 4 A point sits on the x-axis, 6 across. Write its coordinates.

- 5 A point sits on the y-axis, 4 up. Write its coordinates.

Section B • Translating points

Add to the first number to go right, to the second to go up.

- 1 The point (2, 3) is translated 4 right and 0 up. Write its new coordinates.

- 2 The point (5, 6) is translated 3 left and 2 down. Write its new coordinates.

- 3 The point (1, 1) is translated 0 right and 5 up. Write its new coordinates.

- 4 The point (7, 4) is translated 5 left and 3 up. Write its new coordinates.

- 5 The point (3, 8) moves to (3, 2). Describe the move.

Section C • Shapes on a grid

Sketch it. A rough drawing finds the missing corner faster than thinking.

- 1 Three corners of a rectangle are (1, 1), (5, 1) and (1, 4). Write the coordinates of the fourth corner.

- 2 Three corners of a rectangle are (2, 2), (2, 7) and (8, 2). Write the coordinates of the fourth corner.

- 3 Find the midpoint of (2, 3) and (8, 9).

- 4 A square has corners at (1, 1), (4, 1) and (4, 4). Write the fourth corner.

- 5 How long is the side of a square with corners (1, 1), (4, 1), (4, 4) and (1, 4)?

- 6 Find the area of that square.