

Directions and routes (left/right, N/S/E/W)

WHAT THIS LESSON TEACHES

A heading is a fixed compass direction: north, south, east or west. On the map north points up the page, south down, east to the right and west to the left. A heading points the same way from anywhere, so 'go east 3 squares' always means the same way no matter which direction you are facing.

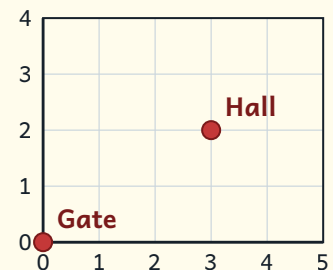
→ From the gate, go north 2 then east 3 to reach the hall.

→ To reverse east 3 then north 2, go south 2 then west 3.

MODEL THIS ON THE BOARD

FOLLOWING A ROUTE ON THE GRID

- 1 Start at the Gate (bottom-left). North is up the page and east is to the right.
- 2 Go **east 3** squares along the bottom row.
- 3 Then go **north 2** squares up. You land on the Hall.



DISCUSSION STARTER

REFLECT When giving a route, do left/right turns or N/S/E/W headings feel clearer to you?

ANSWER KEY

b) (4, 1)

c) (1, 1)

Q1: north

Q2: east

Q3: south 3, west 4

a) **Never** — Lesson shows order matters: (2,3) and (3,2) are different points.

b) **Always** — This is the exact procedure taught: across first, then up, starting at (0,0).

c) **Always** — Lesson states every count starts from the bottom-left corner at (0, 0).

d) **Sometimes** — True for points like (5,5); false for points like (4,1) or (2,3).

EXTENSION SHEET · STRETCH ANSWERS

S1: (3, 8)

S2: (8, 4)

S3: (4, 10)

S4: (5, 4)

S5: (10, 4)