

Plotting and reading points with negative co-ordinates

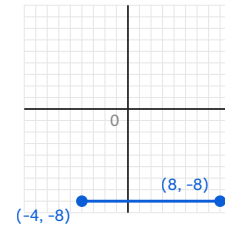
MODULE 8 · LOCATION, TRANSFORMATIONS AND SCALE SHAPE & SPACE

HOW TO ANSWER TODAY

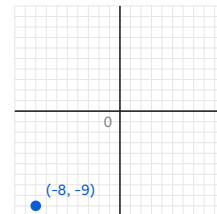
- **Distance on an axis.** If the two points share x or y, subtract the OTHER coordinates. Answer is in units.
(2, 5) and (2, 9) share $x=2 \rightarrow 9 - 5 = 4$ units
- **Quadrants.** Q1 is top-right; numbering goes ANTICLOCKWISE. A point on an axis is on the axis, not in a quadrant.

★ STRETCH PROBLEMS

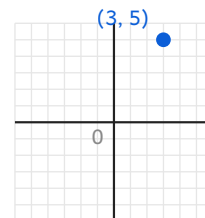
- 1 Aoife draws a coordinate map of the Cumann na mBunscol pitch. She marks one player at (8, -8) and another at (-4, -8). What is the distance between the two players?



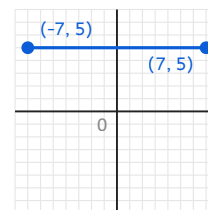
- 2 Fionn helps plan a relay race on a coordinate grid marked out in the school yard. One runner's starting position is at the point (-8, -9). Which quadrant contains this point?



- 3 Aoife is mapping the trees in the school orchard on a coordinate grid. She marks one apple tree at the point (3, 5). Which quadrant contains the point (3, 5)?



- 4 In the yard, 6th class mark cones on a coordinate grid for a PE game. One cone is placed at (-7, 5) and another at (7, 5). What is the distance between the two cones?



- 5 In a yard game, 6th class mark cone positions on a coordinate grid. Aoife places one cone at the point (-8, 0). Which quadrant contains this point, or does it lie on an axis?

