

Drawing a shape from a list of co-ordinates

MODULE 7 · DATA, CHANCE AND THE CO-ORDINATE PLANE DATA & CHANCE

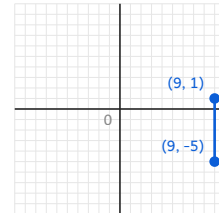
HOW TO ANSWER TODAY

- **Distance on an axis.** If the two points share x or y, subtract the OTHER coordinates. Answer is in units.
- **Quadrants.** Q1 is top-right; numbering goes ANTICLOCKWISE. A point on an axis is on the axis, not in a quadrant.

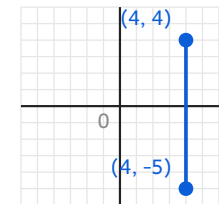
$(3, 5) \rightarrow$ Q1 · $(-2, 1) \rightarrow$ Q2 · $(0, 4) \rightarrow$ on the y-axis

★ STRETCH PROBLEMS

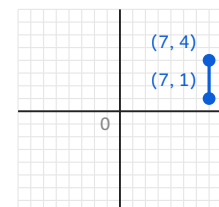
- 1 In an art-and-maths lesson, Oisín draws a treasure map on a coordinate grid. The palm tree is at $(9, 1)$ and the buried chest is at $(9, -5)$. What is the distance between the palm tree and the chest on the grid?



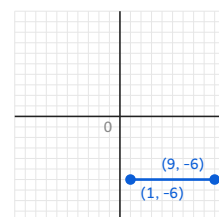
- 2 Cian sets up a cone game in the school yard using a grid chalked on the tarmac. He places one cone at $(4, 4)$ and another at $(4, -5)$. What is the distance between the two cones along the grid?



- 3 5th class are doing a treasure hunt in the school yard using a grid map. The first clue is buried at $(7, 1)$ and the second clue is buried at $(7, 4)$. How many squares apart are the two clues?



- 4 Tadhg draws a coordinate map of his Cumann na mBunscol pitch. He marks two cones along the sideline at $(9, -6)$ and $(1, -6)$. How many units apart are the two cones?



- 5 Mr Ó Briain draws a coordinate grid in chalk on the yard and the pupils place cones at different points. Cara puts her cone at $(-6, 4)$. Which quadrant of the grid is her cone in?

