Drawing a shape from a list of co-ordinates

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

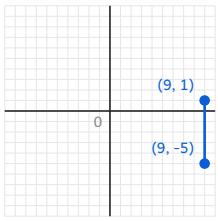
HOW TO ANSWER TODAY

- **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.

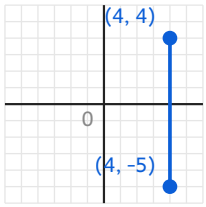
(3, 5) → Q1 (−2, 1) → Q2 (0, 4) → on the y-axis

STRETCH PROBLEMS

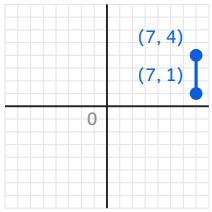
1. In an art-and-maths lesson, Oisín draws a treasure map on a coordinate grid. The palm tree is at (9 , 1) and the buried chest is at (9 , - 5). What is the distance between the palm tree and the chest on the grid?



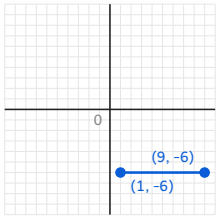
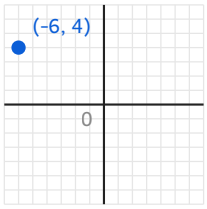
2. Cian sets up a cone game in the school yard using a grid chalked on the tarmac. He places one cone at (4 , 4) and another at (4 , - 5). What is the distance between the two cones along the grid?



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?