

The full four-quadrant co-ordinate plane

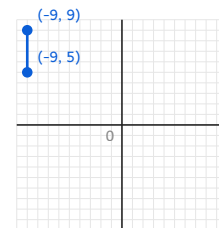
MODULE 8 · LOCATION, TRANSFORMATIONS AND SCALE SHAPE & SPACE

HOW TO ANSWER TODAY

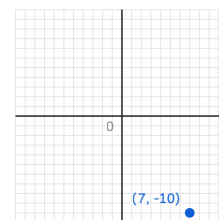
- **Distance on an axis.** If the two points share x or y, subtract the OTHER coordinates. Answer is in units.
- **Quadrants.** Q1 is top-right; numbering goes ANTICLOCKWISE. A point on an axis is on the axis, not in a quadrant.

★ STRETCH PROBLEMS

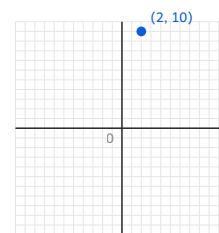
- 1 Saoirse draws a treasure map in the art-and-maths lesson. One clue sits at $(-9, 5)$ and the next at $(-9, 9)$. What is the distance between the two points on her map?



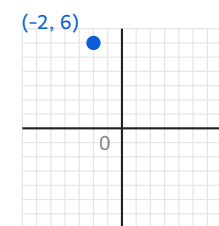
- 2 Saoirse is marking sports day stations on a coordinate map of the school grounds. One station is plotted at the point $(7, -10)$. Which quadrant contains this point?



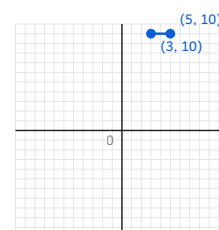
- 3 Cian is drawing a plan of the school yard on grid paper. He marks the front gate at the point $(2, 10)$. Which quadrant contains the point $(2, 10)$?



- 4 On a nature walk near Glendalough, 6th class chart bird sightings on a coordinate grid. Saoirse marks one thrush at the point $(-2, 6)$. Which quadrant contains the point $(-2, 6)$?



- 5 Cian marks two points on the sports day coordinate map of the school grounds: the long jump at $(5, 10)$ and the sprint start at $(3, 10)$. What is the distance between them?



SHAPE & SPACE