

First quadrant of the co-ordinate plane

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

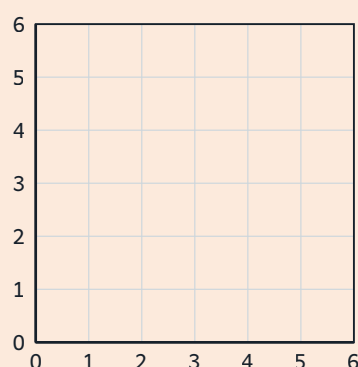
SHAPE & SPACE

HOW TO ANSWER TODAY

- **Quadrants.** Q1 is top-right; numbering goes ANTICLOCKWISE. A point on an axis is on the axis, not in a quadrant.
 $(3, 5) \rightarrow \text{Q1} \cdot (-2, 1) \rightarrow \text{Q2} \cdot (0, 4) \rightarrow \text{on the y-axis}$
- **Distance on an axis.** If the two points share x or y, subtract the OTHER coordinates. Answer is in units.
 $(2, 5) \text{ and } (2, 9) \text{ share } x=2 \rightarrow 9 - 5 = 4 \text{ units}$

TRY IT ON THE LINE

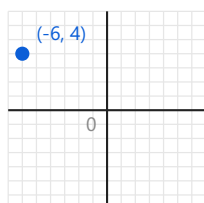
Plot each point on the grid as a small dot, then label it with its letter.



1. Plot **A** at $(2, 3)$.
2. Plot **B** at $(5, 1)$.
3. Plot **C** at $(0, 4)$ — on the **y-axis**.
4. Plot **D** at $(4, 0)$ — on the **x-axis**.
5. Plot **E** at $(3, 3)$ — equal distance right and up.

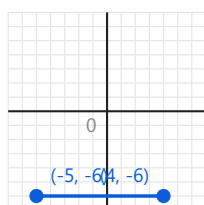
PRACTICE

1



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?

2



Mr Ó Briain sketches a relay-race plan on a coordinate grid in the PE hall. Cian's starting cone is marked at $(4, -6)$ and Saoirse's starting cone is at $(-5, -6)$. What is the distance between the two cones on the grid?