

The full four-quadrant co-ordinate plane

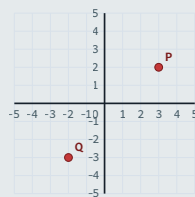
CURRICULUM ALIGNMENT

SHA.SAL.4a describe location on the full co-ordinate plane.

INTERACTIVES Coordinate Grid · challenge, display, explore

WHAT THIS LESSON TEACHES

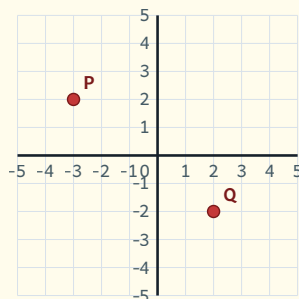
Two number lines cross at the **origin** to make four quadrants. Points can have **negative** x or y values.



→ (-2, 3) is to the left and up; (2, -3) is right and down.

MODEL THIS ON THE BOARD

PLOT P (-3, 2) AND Q (2, -2)



- 1 P (-3, 2): **3 left, 2 up.**
- 2 Q (2, -2): **2 right, 2 down.**
- 3 A negative x means left; a negative y means down.

ANSWER KEY

W1: 4 units

W2: (3, 10) → Q1

W3: 5 units

W4: (3, 8) → Q1

Q1: 9 units

Q2: (8, -4) → Q4

Q3: (-6, 9) → Q2

Q4: 9 units

EXTENSION SHEET · STRETCH ANSWERS

S1: 3 units

S2: (-6, 4) → Q2

S3: (8, -4) → Q4

S4: 6 units

S5: $(-6, 4) \rightarrow Q2$