

Coordinate Quest Map

Plot, read and interpret locations on coordinate grids.

GRADE 5 • 5.G.A

CCSS.Math.Content.5.G.A "Graph points on the coordinate plane to solve real-world and mathematical problems."

NAME _____

DATE _____

ORDERED PAIR RULES

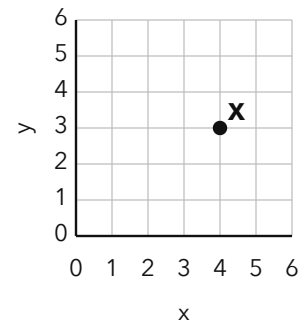
The x-axis is horizontal and the y-axis is vertical. They meet at the origin (0, 0). In an ordered pair (x, y), start at the origin, move right x units and then up y units. The grid uses one unit per square.

WORKED EXAMPLE

Plot X at (4, 3). What does each coordinate mean?

1. Start at the origin (0, 0).
2. Move 4 units right, then 3 units up.
3. Mark and label X at that intersection.

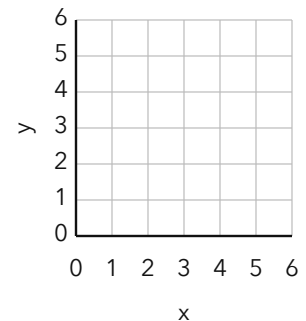
Answer: X is 4 units right and 3 units up from the origin.



PRACTICE 6 problems

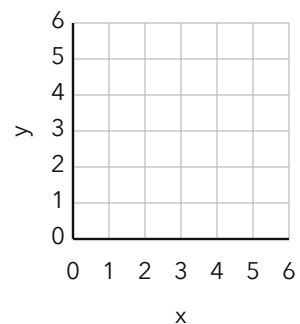
- 1** Plot and label B at (6, 2). State what each coordinate tells you.

ANSWER _____



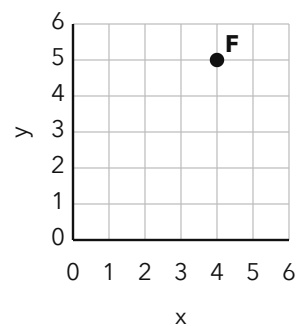
- 2** Point C is 3 units right and 5 units up from the origin. Plot C and write its ordered pair.

ANSWER _____



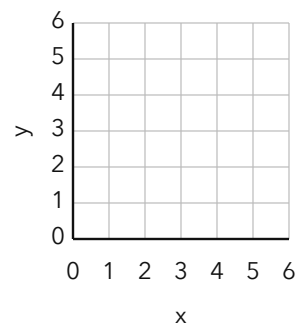
- 3** Read point F. Write its ordered pair and explain which coordinate comes first.

ANSWER _____



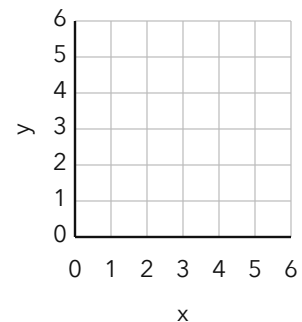
- 4** Plot D at (1, 6). How far right and up is it from the origin?

ANSWER _____



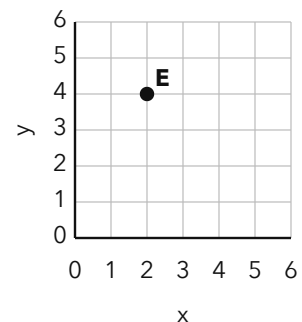
- 5** Plot a point P with $x = 5$ and $y = 1$. Write its ordered pair.

ANSWER _____



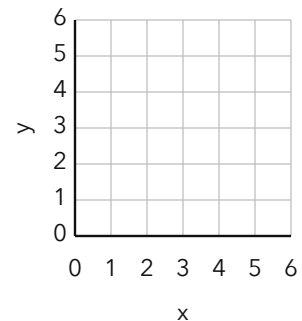
- 6** Point E is shown. Is E right or left of the origin, and above or below it? Write its ordered pair.

ANSWER _____



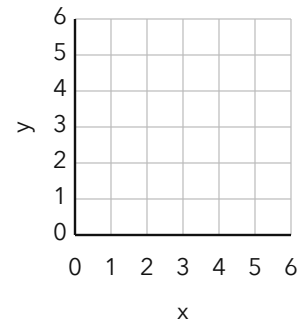
APPLY IT Show your work

- 1** A robot starts at the origin. On this course, x measures blocks east and y measures blocks north. Plot battery B at $(2, 5)$ and ramp R at $(5, 2)$. Explain what B's coordinates mean.



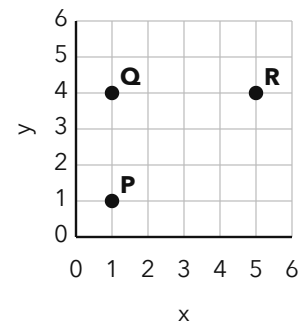
2

A game token starts at $S = (1, 2)$. Plot S , then plot its new location T after moving 4 spaces right and 3 up. Write T 's ordered pair.

**CHALLENGE** One step up

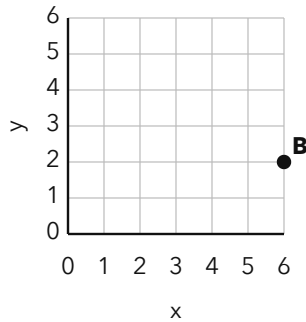
P , Q and R are consecutive rectangle corners. Plot and label the fourth corner S . Connect P - Q - R - S - P . Write S 's coordinates and explain.

WORK SPACE AND ANSWER

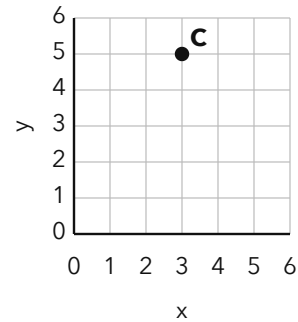


PRACTICE 1

B is at (6, 2): 6 units right and 2 units up.

**PRACTICE 2**

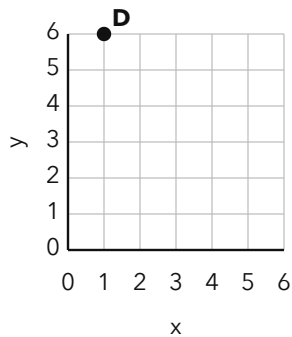
C = (3, 5).

**PRACTICE 3**

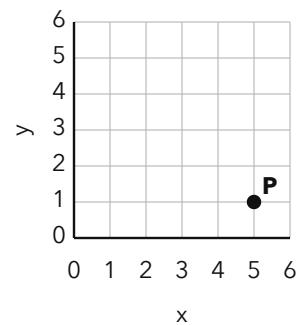
F = (4, 5). The horizontal x-coordinate comes first.

PRACTICE 4

1 unit right; 6 units up.

**PRACTICE 5**

P = (5, 1).

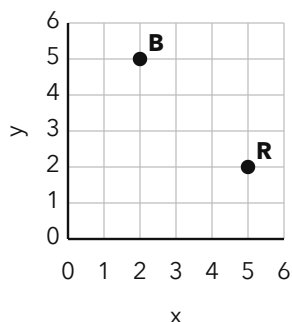
**PRACTICE 6**

Right and above; E = (2, 4).

APPLY IT 1

$B = (2, 5)$; $R = (5, 2)$. The battery is 2 blocks east and 5 blocks north of the start.

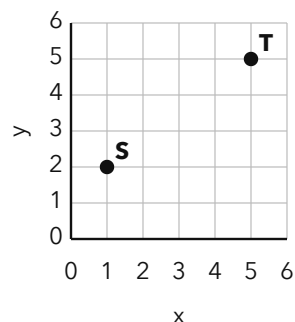
Check both locations and the meaning of each coordinate.



APPLY IT 2

$T = (5, 5)$.

Add 4 to x and 3 to y: $(1 + 4, 2 + 3) = (5, 5)$.



CHALLENGE

$S = (5, 1)$. It is directly below R and directly right of P; connecting the corners gives four right angles.

Require plotted dots and labels on construction tasks. In the challenge, add S at (5, 1), then draw segments P-Q, Q-R, R-S and S-P. Ordered pairs must place x first. Read locations from the labeled axes; all grids use one unit per square.