Represent Rational Numbers on the Coordinate Plane

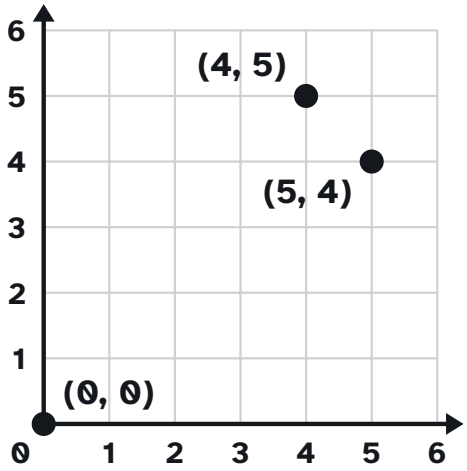
Plot and name points on a grid with two numbers: sideways first, then up.

Name _____ **Date** _____

Tonight's spark

A rec-center treasure hunt uses floor tiles. The card says: prize at (5, 4). Mia starts on the center tile, goes 5 right, then 4 up. Dev goes 4 right, then 5 up. Who finds the prize?

Guess first: will Mia and Dev land on the same tile?



Our class model: right first, then up

Try it

Work it out on paper. Write one answer on each line.

1 **Which ordered pair names the origin?**

A. (0, 0) **B.** (1, 1) **C.** (0, 1) **D.** (1, 0)

My answer _____

2 **To plot (4, 2), how far do you move right from the origin?**

A. 2 **B.** 4 **C.** 6 **D.** 0

My answer _____

3 **Which ordered pair means 3 right and 5 up?**

A. (5, 3) **B.** (8, 0) **C.** (3, 5) **D.** (3, 3)

My answer _____

4 **What is the x-coordinate of (7, 1)?**

A. 1 **B.** 8 **C.** 0 **D.** 7

My answer _____

5 **Which point is farther to the right: (2, 8) or (6, 1)?**

A. (2, 8) **B.** (6, 1) **C.** They are the same distance **D.** You cannot tell

My answer _____

Talk about it

Which number tells how far to go sideways? Which tells how far to go up?

Home mission

Use the corner of the table nearest you as the origin. Slide a coin 5 finger-widths right, then 4 finger-widths away from you. Say the point: (5, 4). Now try (4, 5). Does the coin land in the same place?

If we get stuck, ask

- Where do we always start? Let's put our finger on the origin first.
- Which number is first? That one tells us how far to move sideways.
- Say the point out loud. What is each number telling us to do?

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/7-5/homework.html

How did it feel? (optional)

Tricky Getting there Got it