Ordered Pairs in All Four Quadrants

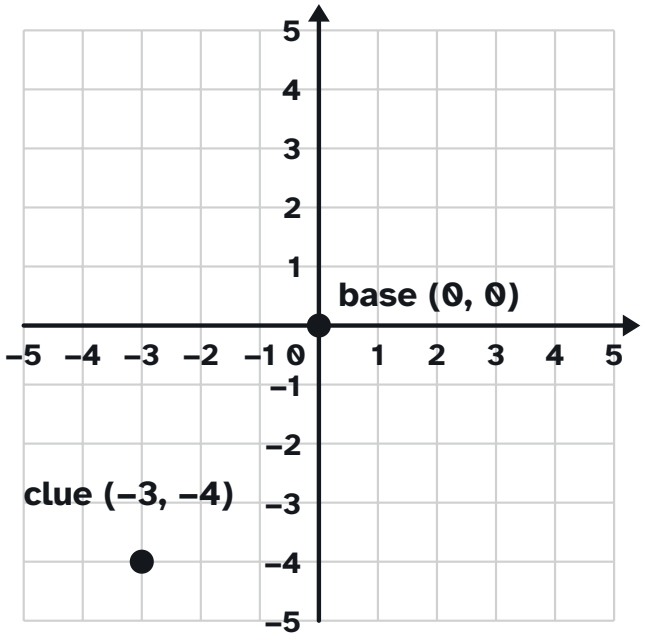
Plot points in all four quadrants, using positive and negative numbers.

Name _____ **Date** _____

Tonight's spark

A rec-center treasure map puts base camp at the center. The first clue says (–3, –4). Which way do you walk, and which of the four map sections do you land in?

Make a guess first: upper half of the map, or lower half?



Our class model: the sign tells the way

Try it

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

1 **To plot (–2, 5), which way do you move for the –2?**

A. Right 2 **B.** Left 2 **C.** Up 2 **D.** Down 2

My answer _____

2 **To plot (4, –3), which way do you move for the –3?**

A. Left 3 **B.** Up 3 **C.** Down 3 **D.** Right 3

My answer _____

3 **Which ordered pair is 3 units left and 2 units down from the origin?**

A. (3, 2) **B.** (–2, –3) **C.** (3, –2) **D.** (–3, –2)

My answer _____

4 **Which ordered pair names a point in the upper-left part of the grid?**

A. (–2, 3) **B.** (2, 3) **C.** (2, –3) **D.** (–2, –3)

My answer _____

5 **A point has coordinates (–4, 6). Starting at the origin, how do you reach it?**

A. Right 4, up 6 **B.** Left 6, up 4 **C.** Left 4, up 6 **D.** Left 4, down 6

My answer _____

Talk about it

Which way does a negative first number send you? Which way does a negative second number send you?

Home mission

Make the middle of a table «base camp.» Hide a coin by saying where it is. Use a pair like (–2, 1). Your student shows which way to move for each number. Then switch roles.

If we get stuck, ask

- Is the first number positive or negative? Does that mean left or right?
- Is the second number positive or negative? Does that mean up or down?
- We always start at the center, the origin. Put your finger there first.

Do it on a screen

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

eduwonderlab.com/lessons/7-8/homework.html

How did it feel? (optional)

Tricky Getting there Got it