

Ordered Pairs in All Four Quadrants

Lesson 7-8

Name: Type your name

Date: Today's date

Class: Class period

My Notes

Level 2 Standard



TODAY'S OBJECTIVES

Content Objective: I can plot ordered pairs in all four quadrants of the coordinate plane.

Language Objective: I can explain my work using the words quadrant, negative coordinate, reflection, and axis.



See **Learn It** for the explanation and worked examples, and the **Vocab** tab for the words. These are your notes to fill in and keep.



Fill in each blank as we go. Use the Word Bank to help you.



WORD BANK — FILL EACH BLANK WITH THE BEST WORD

Quadrant

Negative coordinate

Reflection

Axis

Integer



Tap any word to see its meaning and a picture.

1

One of the four regions of the coordinate plane, numbered I to IV, is a

.

2

A coordinate less than zero, which places a point left of or below the origin, is a

.

3

A flip of a point over an axis is a .

4

One of the two number lines, the x-axis or y-axis, that form the grid is an

.

5

A whole number or its opposite is an .

Write About the Math

How do four-quadrant coordinates help a city map locations in every direction from the center?

¿Cómo ayudan las coordenadas de cuatro cuadrantes a una ciudad a ubicar lugares en todas las direcciones desde el centro?

Say your answer to a partner first. Then write it, using at least two of these words:

☐ **Quadrant**
Cuadrante

☐ **Negative coordinate**
Coordenada negativa

☐ **Reflection**
Reflexión

☐ **Axis**
Eje

☐ **Integer**
Número entero

Model: *The signs of the coordinates tell me the quadrant because ____.* — Student matches sign combinations to quadrants (e.g., (+,+) is I, (-,+) is II).

Start

Complete the frames. Use the word bank.

Completa las oraciones. Usa el banco de palabras.

- **The library is in Quadrant ____ because its x is ____ and its y is ____.** The park is in Quadrant ____ because ____.
- **My answer is ____ because ____.**
Mi respuesta es ____ porque ____.

Build

Write two connected sentences. Use because, so, or but.

Escribe dos oraciones conectadas. Usa porque, entonces o pero.

- **My claim is ____.**
Mi afirmación es ____.
- **My evidence is ____, so ____.**
Mi evidencia es ____, entonces ____.

Explain

Write a claim, give math evidence, and explain your reasoning.

Escribe una afirmación, da evidencia matemática y explica tu razonamiento.

☐ I answered the question.

☐ I used math evidence: numbers, an equation, or a model.

☐ I used at least two math words.