Lesson 3: Plot More Points

Standards Alignments

Addressing   5.G.A.1
Building Towards   5.G.A.1

Teacher-facing Learning Goals

- Locate and name coordinates on a coordinate grid by reasoning about the structure of coordinate pairs.

Student-facing Learning Goals

- Let's locate and name points on the coordinate grid.

Lesson Purpose

The purpose of this lesson is for students to plot points on the coordinate grid and recognize the importance of attending to precision when naming coordinates.

In previous lessons, students saw how coordinates are an effective tool for locating and describing points on the coordinate grid. In this lesson, they examine how points sharing the same vertical or horizontal coordinate are related. For example, the points $(3, 1)$, $(5, 1)$, and $(6, 1)$ all have 1 as their second coordinate. Students see that they all lie on a horizontal line. Students study points that lie on the horizontal or vertical axes and see 0 as a possible value for a coordinate.
This lesson has a Student Section Summary.

Access for:

♿ Students with Disabilities

- Action and Expression (Activity 1)

🌐 English Learners

- MLR8 (Activity 1)

Instructional Routines

Notice and Wonder (Warm-up)

Lesson Timeline

Warm-up	10 min
Activity 1	20 min
Activity 2	15 min

Teacher Reflection Question

What questions did you ask to deepen student understanding of the structure of the coordinate plane?

Lesson Synthesis	10 min
Cool-down	5 min

Cool-down (to be completed at the end of the lesson) 🕐 5 min
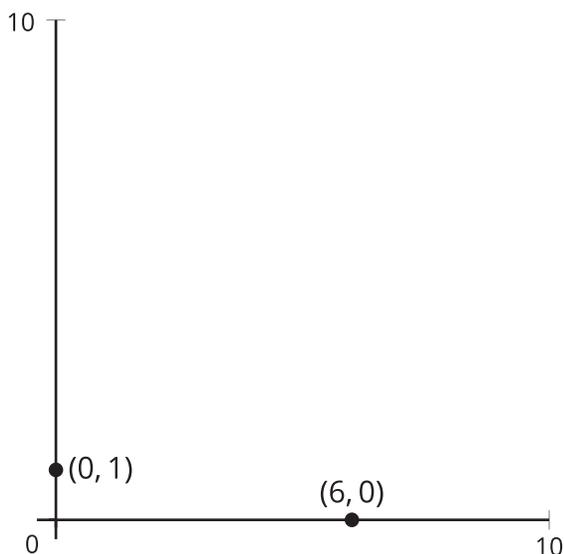
Missing Coordinate

Standards Alignments

Addressing   5.G.A.1

Student-facing Task Statement

Here is a coordinate plane with some points labeled.

Plot and label the points $(3, 0)$, $(0, 2)$ and $(3, 2)$. Explain or show your reasoning.

Student Responses

Sample responses: For $(3, 0)$ I took half the distance to $(6, 0)$ and for $(0, 2)$ I took twice the distance to $(0, 1)$. Then $(3, 2)$ has horizontal coordinate 3 and vertical coordinate 2.