

NWEA Assessment Item Illustrating 6.NS.C.6.c

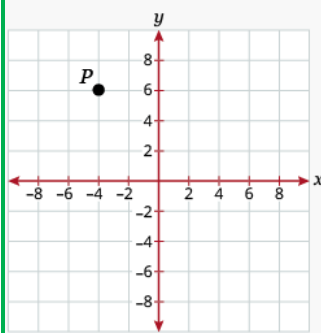
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Domain: The Number System

6.NS.C: Apply and extend previous understandings of numbers to the system of rational numbers.

Calculator Availability: No

Use the graph to answer the question.



What are the coordinates of point P ? Enter the answer in the boxes.

(,)

Alignment: 6.NS.C.6c: Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.

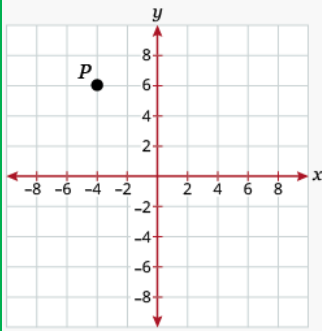
Knowledge of the coordinate plane is fundamental for building continued understanding of number systems. This item requires students to identify the coordinates of a point in the second quadrant.

Coherence: Students began work with the number line in grade 2 and extended that understanding to graph points in the first quadrant in grade 5.^{5.G.A.1} In grade 6, students learn that there is a number system that includes both positive and negative numbers, and therefore plotting points in all four quadrants is a natural extension of those concepts. This knowledge is foundational for the continued work in the rational number system^{7.NS.A.1} and for the grade 8 work of linear functions in the coordinate plane.^{8.F.A/B, 8.EE.B}

Rigor: This item attends to conceptual understanding. Students recall the grade-level concept of a negative number and the horizontal and vertical number line to identify coordinates.

Answer Key:

Use the graph to answer the question.



What are the coordinates of point P ? Enter the answer in the boxes.

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