Prompt 1: Solving Equations with Fractions
The problem (1/2)x+6=-8 was solved by two students. One student said the answer was $x=-28$. Another student strongly debated that the correct answer should be $x=-7$, because half of -14 is -7 .

Mathematical foci: Understanding of fractions (conceptual and procedural) and solution(s) of an equation

Prompt 2: Y-intercept
Given a graph, students identified the y-intercept as the point of the line that intersects the $y$-axis. However, students expressed great difficulty with recognizing the $y$-intercept from a table (of ordered pairs). A student asked, "How can you find the y-intercept from the table if you do not graph it first?"

Mathematical foci: Recognizing and being able to move among different representations of linear functions

