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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