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Victor I Piercey* (piercev1@ferris.edu), Department of Mathematics, 820 Campus Drive, ASC 2021, Big Rapids, MI 49307. *An Inquiry-Based Approach to Using and Manipulating Formulas*. Preliminary report.

A typical problem in both developmental and gateway courses is “Solve the formula for the specified variable.” Students often struggle with these problems, typically because they are either overwhelmed by all of the variables or don’t make connections between the algebra and arithmetic. In this talk, I will share an inquiry-based module designed to help developmental students make the connection between algebra and arithmetic and use this connection to solve problems. I will present data demonstrating the positive impact on student success, especially as it concerns the breadth of problems that students can solve at the end of the module. In addition, I will present data concerning the impact on math anxiety and beliefs. (Received August 25, 2014)