

1145-VB-1478 **Patricia Baggett*** (pbaggett@nmsu.edu), Dept of Math Sci, MSC 3MB P.O. Box 30001, New Mexico State University, Las Cruces, NM 88003-8001, and **Andrzej Ehrenfeucht**. *Teaching the meaning of arithmetic in early nineteenth-century England, according to teacher William Russell.*

In 1821 English accountant and teacher William Russell published a book, “A Companion to Every Treatise to Arithmetic”. It was not an arithmetic textbook; it contained explanations of arithmetic concepts and procedures that were currently taught. The author stated that his goal was to help students to understand arithmetic as well as to learn how to carry out arithmetic procedures and use them in practice. The book is brief. It is divided into 48 short chapters, each dealing with a different topic of arithmetic or its application. Each chapter contains a sequence of questions and answers. The author explains his opinion about the meaning of arithmetic in another book, “The Philosophy of Arithmetic; or a Complete Analysis of Integers”, printed in London for J. Souter School Library, 73, St. Paul’s Church Yard, which is available on the internet (in Google, William Russell “The Philosophy of Arithmetic”). In the talk, we’ll briefly describe the author, his books, and their intended audience. And we’ll present in detail his ideas about understanding arithmetic, which were very different from current ideas of “teaching for understanding” that underlie today’s pedagogy of mathematics. (Received September 22, 2018)