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Ockle E Johnson* (ojohnson@keene.edu), Mathematics Department, Keene State College,
Keene, NH 03435-2001. *Introducing Proof in the First Grade: The Sum of Even Numbers is Even.*

Proving that the sum of even integers is even is a typical first proof in an introductory proof course. In this talk we will discuss proving it in a first grade classroom. We will describe how the students looked at examples, developed a conjecture, modeled the problem using manipulatives, and, based on their models, were able to verbalize a proof of the theorem using their own definitions and language. Finally we will discuss how this relates to the Reasoning and Proof Standard for Grades Pre-K–2 in the NCTM’s Principles and Standards for School Mathematics and how we might support this Standard through our visits to classrooms and our work with pre-service and in-service teachers. (Received September 15, 2000)