

1014-H1-418 **Andrew J. Miller*** (millera@mail.belmont.edu), Dept. of Mathematics and Computer Science, Belmont University, 1900 Belmont Blvd, Nashville, TN 37212. *Pass it On.*

Inspired by an assignment in *The Heart of Mathematics* by Burger and Starbird, I have in recent semesters asked students in my general education mathematics course to explain the proofs of important theorems (the Pythagorean Theorem, the irrationality of $\sqrt{2}$, and the fact that there are different sizes of infinity) to family or friends outside of the class. I then ask them to report on the experience to me through a short informal essay. Based on the students' comments in those essays, it appears that the experience is successful in both increasing their understanding of the proofs and their ability to communicate mathematical ideas. I will share details of the assignments, reflections on my use of them, and samples of student work. (Received September 19, 2005)