

1067-G1-1757 **Sam Vandervelde*** (svandervelde@stlawu.edu), Dept of Math, CS and Stats, St. Lawrence University, 23 Romoda Drive, Canton, NY 13617. *Students of MATH 341, Advances in Number Theory, 1 (2010), 1–30.*

For professional mathematicians, one of the principle purposes for crafting carefully written proofs is to convey to others new mathematical results and to establish their validity. In short, we publish papers in journals. However, for the most part undergraduates are completely unfamiliar with this motivation and context for writing proofs. In this talk I will describe an unexpectedly successful component to a recent Number Theory Course based on these observations. Students engaged in investigating and proving theorems, wrote two-page papers based on their results, “submitted” them to our journal *Advances in Number Theory*, refereed one another’s papers, and finally resubmitted their revised articles. I will relate the elements of this project that contributed to its success and share how it impacted students’ perception of proof composition. Hard copies of the self-published issue produced by the class will be available for perusal. (Received September 21, 2010)