

1106-N1-2123 **Kristin A. Camenga*** (kristin.camenga@houghton.edu). *Extending mathematical problems*. Preliminary report.

As mathematicians, we often create new problems by extending our recent work: considering further cases, generalizing, or exploring a new direction uncovered by solutions to previous problems. In this talk, we will discuss two assignments that ask students to pose their own problems by extending their work on assigned problems. One assignment is from a discrete mathematics course typically taken by sophomores and one is from the capstone course for the mathematics major. We will share the assignments, how students have performed and comments they have made, and compare how the expectations and performance varies between the courses. (Received September 15, 2014)