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Christopher J Lacke* (lacke@rowan.edu), Math Department, Rowan University, 201 Mullica Hill Rd., Glassboro, NJ 08028. *Using Fathom to Explain Central Tendency and Variability.*

Two of the basic concepts in an introductory statistics course are central tendency and variability. In this talk I will demonstrate how I explain the notions of mean and median, including the concept of resistance, as well as the notion of variability. By using Fathom, students are able to see the effects of changes on the graphical and numeric summaries. During the discussion on variability, we will "create" symmetric datasets with the same mean and the same range, but having different variances, in order to assist in understanding the concept behind variance. (Received September 23, 2005)