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H Smith Risser* (hrisser@mttech.edu), 1300 W. Park, Department of Mathematical Sciences, Butte, MT 59701. *The relationship between online homework, test grades, and persistence in calculus.*

Approximately 150 students in three sections of Calculus that utilized an online homework system were studied. Relationships between the completion of online homework assignments and both test grades and persistence in the course were found. Students that completed the homework assignments received significantly higher grades on tests than students that did not. Students that successfully completed a calculus course (defined as receiving a C or better) also completed a significantly higher percentage of the homework they attempted than those that did not successfully complete the course. (Received August 26, 2009)