

1096-M5-220 **Nell K. Rayburn*** (rayburnn@apsu.edu), Box 4626, Department of Mathematics and Statistics, Austin Peay State University, Clarksville, TN 37044, and **Samuel Jator** and **Bonnie Hodge**.
Maximizing the Effectiveness of an On-Line Homework System.

This project compared three instructional strategies in College Algebra: 1) Lecture: Lecture three days per week, instructional software for homework; 2) Lab: Lecture two days per week, one day per week instruction in computer lab, instructional software for homework; 3) Group: Lecture two days per week, structured small group activities (without computer) one day per week, instructional software for homework.

The “Group” treatment yielded slightly higher success rates (in terms of course grades) and slightly higher scores on the common final exam. The Group treatment also resulted in higher persistence rates and better student attitudes regarding the on-line homework. (Received August 20, 2013)