Mike Krebs\* (mkrebs@calstatela.edu), Dept. of Mathematics, Cal State LA, 5151 State University Drive, Los Angeles, CA 90032. Tell Me What You Can About A Group Of Order n.

In this talk, we describe a project that can be used in courses whose main focus is group theory. The project is as follows. Each student in the class is assigned a random number n from 1 to 1000. The task is to say as much as possible about a group of order n. Must it be simple? Must it be solvable? Can you classify all groups of order n? We will discuss how students can use software packages such as GAP and MAGMA to tackle the latter question. (Received September 12, 2006)