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At New Mexico State University, Math Appreciation (Math 210) is taken by many non-major undergraduates. Sections have up to 150 students, and instructors are free to design their own content. In our section we give the students a sequence of hands-on and virtual (simulated on the TI-84 calculator) tasks. The goal of these activities is to explain (to students who did not take calculus) the theoretical distribution as a limit of distributions observed from samples. In the talk we will describe the tasks, show the simulations, and report the students' reactions and their understanding (measured by their answers to specific test questions). (Received September 24, 2012)