The majority of the degree programs available to adult learners seeking degrees outside of the traditional college learning environments involve a statistics course that introduces research and statistical methods used in business decision making and analysis. Students are required to use a high degree of critical thinking skills to successfully complete these statistics courses. A key first night class participation exercise that is highly effective and engaging; serves as a catalyst for critical thinking; is an enabler for students to learn and understand course concepts; and breaks down the intense level of statistical anxiety that students come into class with is discussed in this presentation. This presentation will show the effectiveness of collecting data from students on the first night of statistics class and then using this data throughout the class to engage student’s critical thinking skills and facilitate the learning and understanding of key statistical concepts presented in the Introduction to Statistics course. (Received September 16, 2014)