Name: _____

TAPE #24: INFERENCE FOR TWO-WAY TABLES

1. When the study conducted by Brown University with older women and breast cancer was completed, what was the conclusion? Was the conclusion statistically significant?

2. Anthropologists studied the tooth fossils of two species of ancient relatives of human beings. The species being studied were 'Robustus' and 'Africanus'. What were the two teeth patterns that the anthropologists studied? What was the conclusion of their study?

3. A famous statistician, R. A. Fisher conducted a Two-Way Table Chi-Square analysis of Mendel's famous results of Pea Classification. His study was conducted more than 50 years ago. He concluded that Mendel 'cheated' on his results. Recently, Dr. Robert Root Bernstein, a Science Historian revisited Mendel famous study and shed light on how difficult is was to classify living plants into exactly two categories. What plant did Bernstein's students use to demonstrated the difficulties of classification? Bernstein's students were divided into two groups. How did each group classify the plants they were examining? What did Bernstein have to say about Mendel 'cheating'?