STAT 101 Survey Worksheet   Name:_____
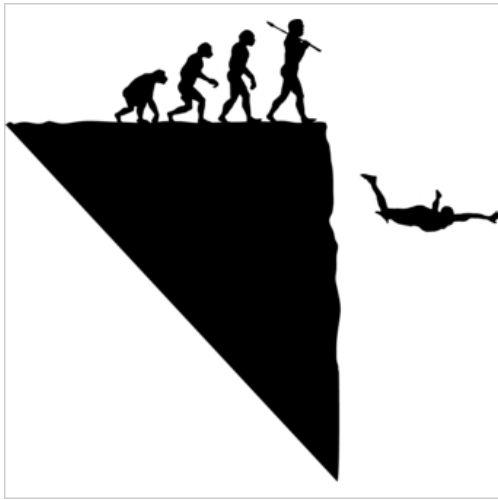

BASE jumping is an extreme sport and is ranked as being amongst the most dangerous adventure sports in the world. "BASE" is an acronym that stands for the four categories of fixed objects that one can jump off. These are: Building, Antenna, Span (a bridge, arch, or dome) and Earth (a cliff or other natural formation).

Results

A paper in the New Zealand Medical Journal reported on survey results from a sample of 35 BASE jumpers selected from the BASE jumping community. **21 of the 34** participants in the survey reported being involved in at least one accident.

Parameter and Statistic

1. Complete the interpretation of the Population Parameter?

   The _____ (*identify parameter*) of <u>all</u> _____(*identify population*) who have been involved in at least one accident.

2. Calculate the observed sample proportion, $\hat{p}$ (sample statistic)?

Survey Methods Questions:

Volunteers were recruited from BASE jump group meetings, adventure website forums, and from personal communication among the BASE jumping community. All volunteers who expressed an interest and contacted the authors were recruited into the study. One participant did not return his survey.

3. What type of sample was used in this study to select individuals from the population of all BASE jumpers?

   ☐ Simple Random Sample   ☐ Voluntary Response Sample

   ☐ Convenience Sample   ☐ Cluster Sample

4. Which of the following types of bias are present in this study.

   ☐ Response Bias   ☐ Non-Response Bias

   ☐ Undercoverage Bias   ☐ Measurement Bias