

## Week 6

### Scenarios

1. As an international development researcher, you would like to know African Citizen's perceptions about current levels of democracy. Your working hypothesis is that a series of reforms have increased African views of the level of democracy today. You do not have a good research design to compare attitudes before and after the reforms, but know that leaders and development experts would like to see a value of 6, on the scale of 1–10. Using the data from the 2015 Afrobarometer, determine whether perceptions about current levels of democracy statistically differ from a value of 6. Please provide: a 1–2 APA style paragraph statement that furnishes an answer to this question, note the relevant statistics, comment on meaningfulness and include your relevant SPSS output.
2. As an international development researcher, you have already tested whether perceptions about the current levels of democracy differ from a value of 6. Given recent social change movements in North Africa, you now want to determine whether there is a statistical difference in these perceptions between North Africa and Southern Africa. Using the data from the 2015 Afrobarometer, please provide: a 1–2 APA style paragraph statement that furnishes an answer to this question, note the relevant statistics, comment on meaningfulness, and include your relevant SPSS output.
3. As an educational researcher, would like to know whether high school student's perceptions about mathematical utility changed between their freshman and senior year. Each respondent is asked the same series of questions about the utility of mathematics in their future during their freshman and senior year. These questions are combined to form one variable of mathematical utility; higher values indicate higher levels of mathematical utility. Using the High School Longitudinal Survey, please provide: a 1–2 APA style paragraph statement that furnishes an answer to this question, note the relevant statistics, comment on meaningfulness, and include your relevant SPSS output.