**Independent T-test Exercise**

Sport Canada was interested in determining if volleyball players have higher vertical jumps than basketball players. This was based on the results from a previous study which showed that, on average, Olympic volleyball players make 10.4 more vertical jumps during a game than Olympic basketball players. Sixteen members of each Canadian Olympic team had their vertical jumps measured. The data, in inches, is included in the Excel file associated with this assignment. An independent sample t-test can be used to determine if there is a significant difference in jump height between the two populations of Olympic athletes.

1. Download “Independent T-test Exercise.xlsx” from my webpage and save the file to your H: drive.
2. Follow the instructions in the spreadsheet and refer to the various readings and class notes.
   1. T Test - Ch.8 Vincent.pdf
   2. 007 Comparing Means from Two Data Sets- The T-test.ppt
   3. <http://en.wikipedia.org/wiki/Effect_size#Cohen.27s_d>
   4. <http://www.osra.org/itlpj/kotrlikwilliamsspring2003.pdf>
3. Repeat the statistical analysis in SPSS and copy and paste the output tables from SPSS into Excel. The SPSS results should be pasted into a separate worksheet named “SPSS” using the “paste special -> picture” option in Excel. The Word document “How to perform an independent t-test in SPSS” will guide you through the necessary steps.