**Chapter 6.1 Excel Instructions**

**Sampling from a Finite Population**

Open the **EAI.xlsx** file in Chapter 6 folder of the Student Data Files.

1. In Cell D1, enter the text “Random Numbers”
2. In Cells D2:D2501, enter the formula “=RAND()”

**Why are your generated numbers different than my generated numbers?**

1. Select the cell range D2:D2501
2. In the **Home** tab in the Ribbon:
   1. Click **Copy**  in the **Clipboard** group
   2. Click the arrow below **Paste** in the **Clipboard** group. When the **Paste** Window appears, click **Values** in the **Paste Values** area.
   3. Press the **Esc** Key
3. Select Cells A1:D2501
4. In the **Data** tab on the Ribbon, click **Sort** in the **Sort & Filter** group
5. When the **Sort** dialog box appears:
   1. Select the check box for **My data has headers**
   2. In the first **Sort by** dropdown menu, select **Random Numbers**
   3. Click **Ok**

**Why is this an example of a simple random sample?**

**Point Estimation**

1. Calculate the Mean, Standard Deviation, and the proportion of the employees who have completed the training program for both the Population and the Sample.

**Why are the sample mean, standard deviation, and proportion different from the population parameters?**