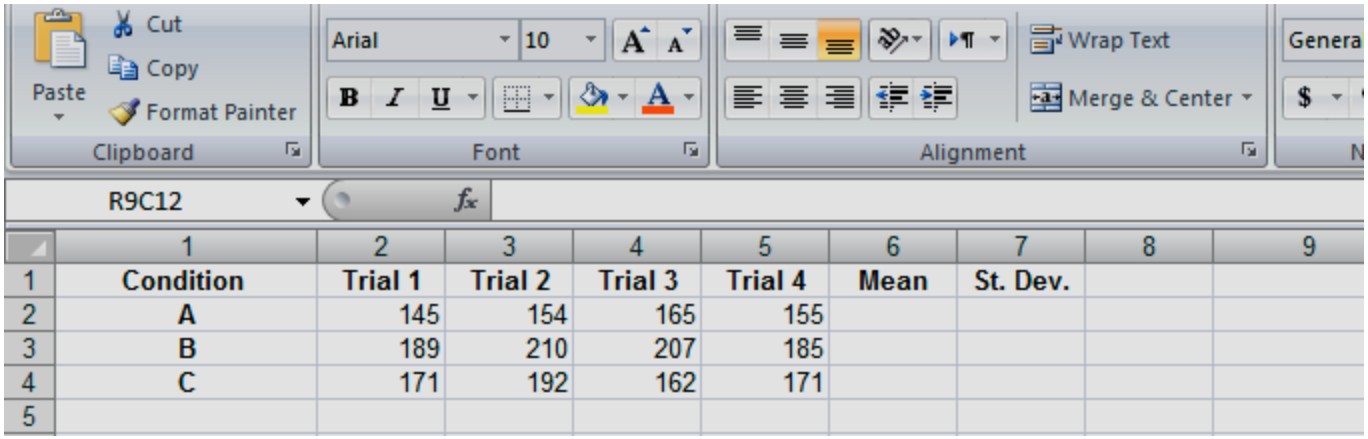
# Graphing using Microsoft Excel 2007
# Tutorial #2- Calculating Mean and Standard Deviation

1. Open Microsoft Excel 2007 **(see tutorial #1).**
2. Enter data on the spreadsheet as the example shown here
3. Label columns for Mean and for Standard deviation as shown below.



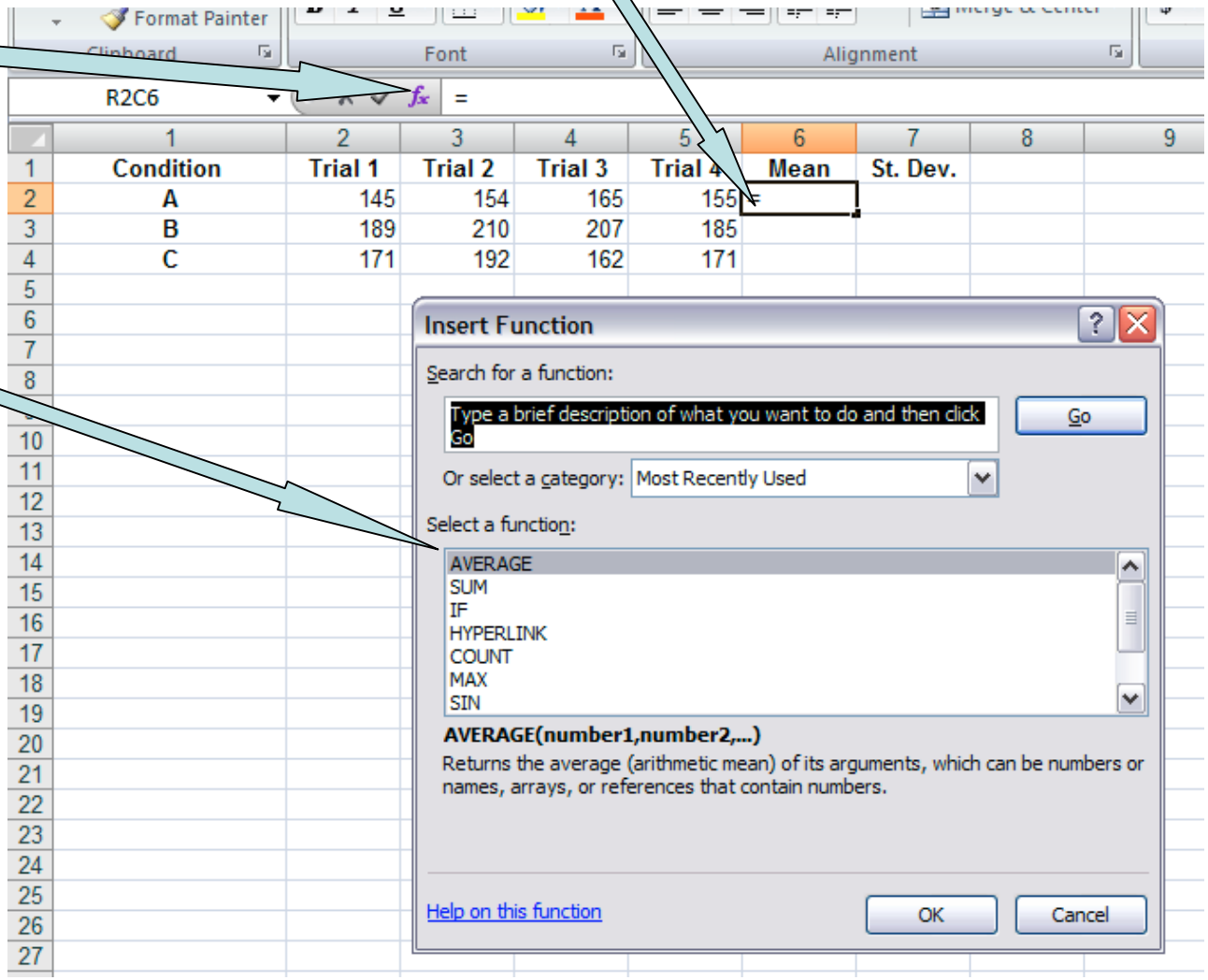

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Condition | Trial 1 | Trial 2 | Trial 3 | Trial 4 | Mean | St. Dev. | | |
| 2 | A | 145 | 154 | 165 | 155 | | | | |
| 3 | B | 189 | 210 | 207 | 185 | | | | |
| 4 | C | 171 | 192 | 162 | 171 | | | | |
| 5 | | | | | | | | | |

In this data set, four trials (labeled Trial 1 through Trial 4) were carried out under each of three conditions (labeled A through C).

# Finding mean and standard deviation values

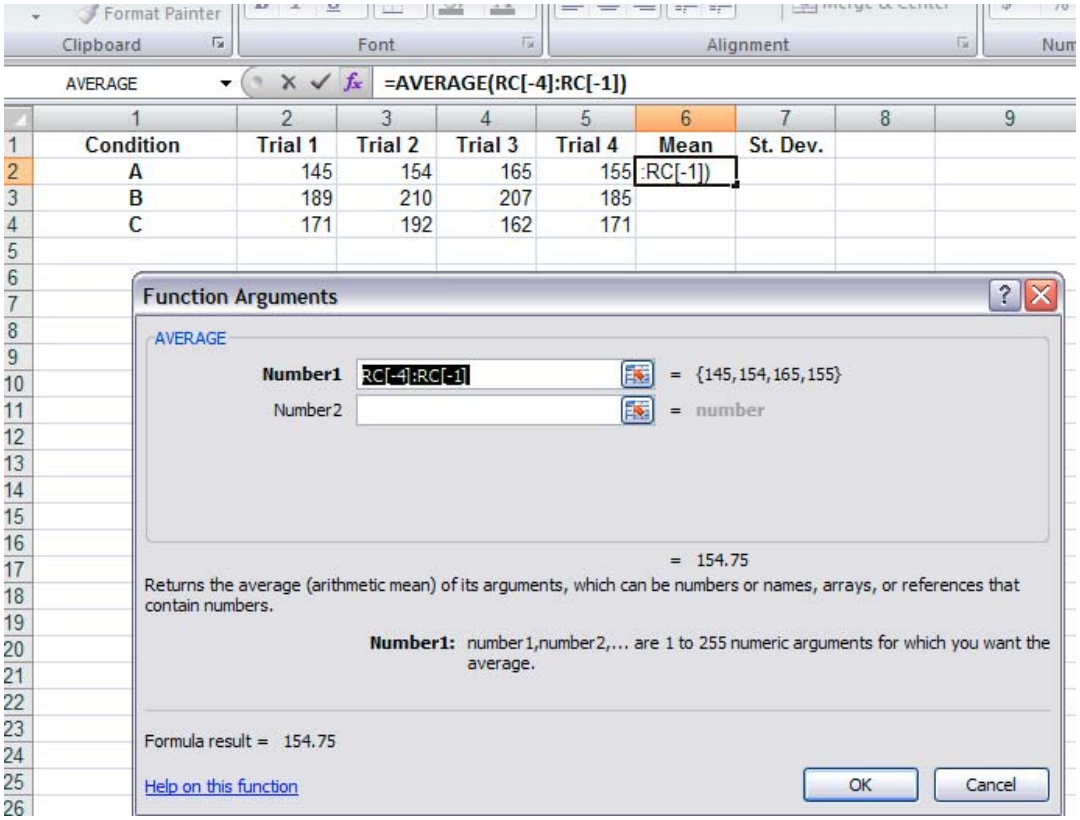
4. Click on the box below “Mean”

5. Click of the “fx”
6. In the pop-up window, select AVERAGE, then click “OK”



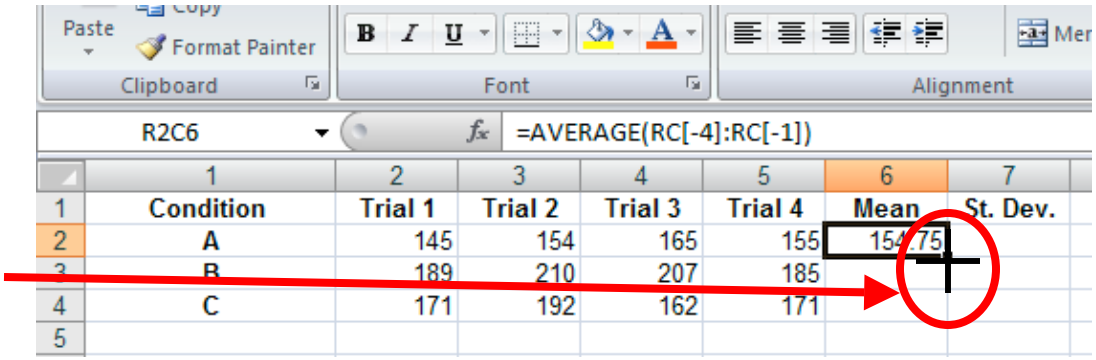
# Microsoft Excel

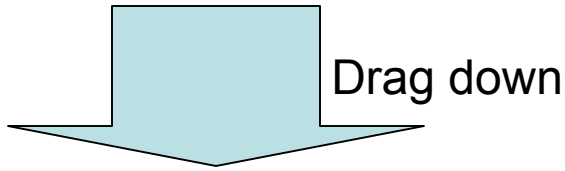
7. Ignore the new pop-up window, and simply select the data of which you wish to determine the average. Do this by left clicking, holding, and dragging over the appropriate boxes.
8. Select OK. The mean value will appear.

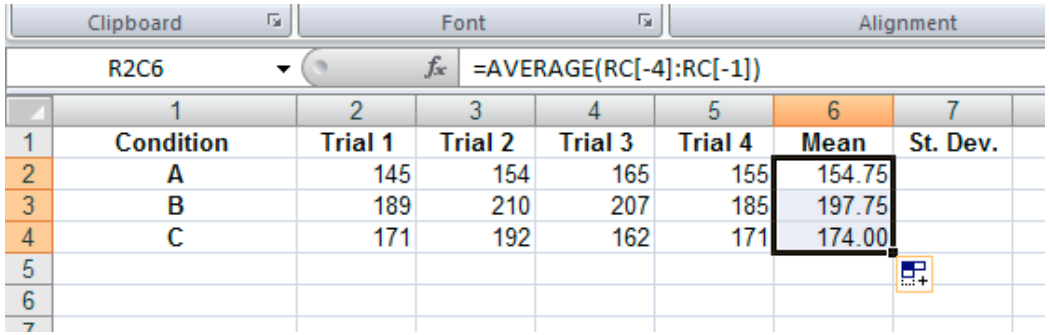



**To determine standard deviation of this same data follow the same steps as above, except choose STDEV in step 6.**

9. Rather than following this procedure for all rows of data, simply select the first cell in the column, and move your mouse pointer over the lower right corner until a cross appears. Now, simply left click (but don't release) and drag down complete the table.




**Now use the same procedure to determine the standard deviation for all rows of data**