

## Assignment 1

### Instructions:

Type your answers, and only your answers (do not copy the questions), in the body of the email to [geog345@gmail.com](mailto:geog345@gmail.com). In the subject line, type "Assignment 1" (without the quotes).

This assignment must be submitted by Thursday, September 10, 11:59 pm EST (i.e. before midnight). Late assignments will be deleted. Please only submit your completed assignment once.

1. Type your last, first name
2. Copy and paste the honor pledge:

I pledge on my honor that I have not given or received any unauthorized assistance on this assignment.  
(Add your initials).

3. Copy and paste the following statement:

I have read and understood the course syllabus.  
(Add your initials).

Please download and open the file assign1.csv. This is a comma delimited data file and should open in a spreadsheet software such as Excel. If you have problems with this file, the data can be found here: [http://www.wunderground.com/history/airport/KCGS/2008/9/1/DailyHistory.html?req\\_city=NA&req\\_state=NA&req\\_statename=NA&format=1](http://www.wunderground.com/history/airport/KCGS/2008/9/1/DailyHistory.html?req_city=NA&req_state=NA&req_statename=NA&format=1)

These are weather data for Monday, September 1, 2008, in College Park, MD. Our last day of summer.

4. Calculate the minimum temperature extreme for the day based on all data points. Round your answer to the nearest degree F.
5. Calculate the maximum temperature extreme for the day based on all data points. Round your answer to the nearest degree F.
6. Estimate the mean temperature by taking the mean of the maximum and minimum temperatures. Round your answer to the nearest degree F.
7. How many times during Sept 1, 2008 was the temperature equal to your answer in question 6?
8. Calculate the mean temperature for Sept 1, 2008 based on all data points. Assume the measurements are approximately at even intervals (do not try to interpolate or scale any measurements). Round your answer to the nearest degree F.
9. Weatherunderground.com reports the average temperature for Sept 1, 2008 was 73 degrees F. Which method do you think Weatherunderground.com used to calculate this (question 6 or question 8)?
10. Weatherunderground.com reports the historical average temperature extremes for September 1 as 84 and 62 degrees F. Estimate the average historical temperature. Round your answer to the nearest degree F.
11. Was the maximum temperature on Sept 1, 2008 warmer or cooler than the historical average maximum?
12. Was the minimum temperature on Sept 1, 2008 warmer or cooler than the historical average minimum?
13. Was estimated average temperature (question 6) for Sept 1, 2008 higher, lower, or the same as the estimated historical average (question 10)?