MATH216 HW 2
Due: Wednesday, March 6th at 11:59pm
Please submit an electronic copy of your assignment to both
***alyford@middlebury.edu* and *alorn@middlebury.edu* using the**
subject line: MATH216 - HW2

The following questions use the **babynames** data set in the *babynames* package. Please submit your report as a knitted HTML file using R Markdown.

1) According to this data set, what are the top 10 most common baby names for US babies, and how many people have been born with each of these 10 names?

2) Use these data to construct a graph showing the number of US births for each of the years since 1880. Interpret this graph.

3) Calculate the total number of babies born since 1880 whose names contained the letter "a". Repeat this for each of the 4 other vowels, and then construct a graph displaying your results—which vowel was the most common?

4) Identify the two longest names given to at least 1000 US babies.

5) Construct a graph of the average length of newborn babies' names over time. Interpret your findings.

6) Construct a graphic showing the change in the proportion of names beginning with a vowel over time and the change in the proportion of names ending with a vowel over time.