

# Extra Math 100 HW on Prob/Stat (Part A)

1. Compute the following sums:

(a)  $\sum_{k=1}^6 k$

(b)  $\sum_{k=2}^5 \sqrt{k-1}$

(c)  $\sum_{k=5}^8 k^2 - (k-1)^2$  (Can you guess a more general formula?)

2. For the following data, make a stem and leaf chart, find the median, min, max,  $Q_1$ ,  $Q_3$ , interquartile range, and make a boxplot.

4.2, 2.9, 2.9, 3.8, 2.9, 3.9, 4.0, 3.1, 6.5, 2.6, 4.2, 2.8, 2.3, 3.2, 2.5

3. For the following data, make a stem and leaf chart, find the median, min, max,  $Q_1$ ,  $Q_3$ , interquartile range, and make a boxplot.

2.1 2.0 1.3 3.0 4.5 5.2 5.6 1.8 5.6 4.9  
4.9 1.9 5.8 3.8 1.8 2.6 5.0 3.6 5.8 2.6

4. For the following data, compute  $\bar{x}$  and  $s^2$ :

-4, 3, -1, 7, 5