MATH 140 SUMMER 2009 WORKSHEET II NAME:_____
(please print legibly)

Let U = S = $\mathbb{Z}$ (the sample space is the integers).

Let the data be described as X_1, X_2, X_3, X_4 (as in problem 1), as X_1, X_2, X_3, X_4, X_5 (as in problem 2) etc.

1. Let the data set be $D_1 = \{1, 2, 3, 4\}$
Find:

A. the mode of the sample B. The median of the sample C. the arithmetic mean (sample mean) of the sample.
D. the geometric mean of the sample. E. the harmonic mean of the sample.
F. find the deviation of X_1 G. find the variance of the sample H. find the standard deviation of the sample
I. find the mean absolute deviation (MAD) J. find the range

2. Let the data set be $D_2 = \{1, 2, 2, 3, 4\}$
Find:

F. find the deviation of X_1 G. find the variance of the sample H. find the standard deviation of the sample

3. Let the data set be $D_3 = \{1, 2, 3, 3, 4\}$
Find:

F. find the deviation of X_1 G. find the variance of the sample H. find the standard deviation of the sample

4. Let the data set be $D_4 = \{1, 3, 3, 3, 4\}$
Find:

F. find the deviation of X_1 G. find the variance of the sample H. find the standard deviation of the sample
I. find an approximation for the standard deviation to accurate to 3 significant figures.

5. Let the data set be $D_5 = \{1, 2, 2, 3, 3, 4\}$
Find:

F. find the deviation of X_1 G. find the variance of the sample H. find the standard deviation of the sample
I. find an approximation for the standard deviation to accurate to 3 significant figures.

6. Let the data set be $D_6 = \{1, 1, 1, 4, 4, 4\}$
Find:

A. the mode of the sample B. The median of the sample C. the arithmetic mean (sample mean) of the sample.
D. the geometric mean of the sample. E. the harmonic mean of the sample.
F. find the deviation of X_1 G. find the variance of the sample H. find the standard deviation of the sample