MATH 140 SUMMER 2010 WORKSHEET 1 ½ NAME:_____

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.

0. Let the data set be $D_0 = \{1, 1, 20, 20, 40, 40, 50\}$
Using SPSS find:

A. draw a histogramme and comment on its appropriateness, correctness, or lack thereof.
B. The median of the sample   C. the arithmetic mean (sample mean) of the sample.   D. the mode of the sample
E. the harmonic mean of the sample.   F. the geometric mean of the sample.   G. find the range
H. the variance of the sample.   I. the standard deviation of the sample.
J. the skewness of the sample.   K. the kurtosis of the sample.

¼ . Let the data set be $D_{1/2} = \{1, 1, 1, 1, 10, 10, 50\}$
Using SPSS find:

A. draw a histogramme and comment on its appropriateness, correctness, or lack thereof.
B. The median of the sample   C. the arithmetic mean (sample mean) of the sample.   D. the mode of the sample
E. the harmonic mean of the sample.   F. the geometric mean of the sample.   G. find the range
H. the variance of the sample.   I. the standard deviation of the sample.
J. the skewness of the sample.   K. the kurtosis of the sample.

½ . Let the data set be $D_{1/2} = \{1, 40, 40, 40, 40, 50, 50\}$
Using SPSS find:

A. draw a histogramme and comment on its appropriateness, correctness, or lack thereof.
B. The median of the sample   C. the arithmetic mean (sample mean) of the sample.   D. the mode of the sample
E. the harmonic mean of the sample.   F. the geometric mean of the sample.   G. find the range
H. the variance of the sample.   I. the standard deviation of the sample.
J. the skewness of the sample.   K. the kurtosis of the sample.

1. Let the data set be $D_1 = \{1, 2, 3, 4\}$
Using SPSS 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 range

2. Let the data set be $D_2 = \{1, 2, 2, 3, 4\}$
Using SPSS 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 $\overline{X}$

3. Let the data set be $D_3 = \{1, 2, 3, 3, 3, 4, 5, 5, 5\}$
Using SPSS find:
A. draw a histogramme and comment on its appropriateness, correctness, or lack thereof.
Find:
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 mode of the sample