MATH 140 SUMMER 2012 WORKSHEET ¾ NAME:_____

(please print legibly)

For quantitative questions 1 – 3 $U = \mathbb{R}$ (the universe is the real numbers) Let $S = \mathbb{Z}$ (the sample space is the integers). So, for any function, f, the domain will be a subset of $\mathbb{Z}$ and the codomain is $\mathbb{R}$ (so the range is a subset of $\mathbb{R}$) $f : A \longrightarrow \mathbb{R}$ where $A \subseteq \mathbb{Z}$

1. Let a data set be $D = \{1, 2, 3, 3, 5, 3, 3, 4, 5, 4, 5, 4, 5, 3, 3\}$

Find:

A.	the range of the data	B.	the frequency of data value 4.
C.	the mode of the sample	D.	the frequency of data value 3.
E.	the range of the data	F.	the frequency of data value 6.

2. Let a data set be $D = \{1, -2, 3, -3, 5, -3, 3, -4, 5, -4, 5, -4, 5, -3, 3\}$

Find:

A.	the range of the data	B.	the frequency of data value 4.
C.	the mode of the sample	D.	the frequency of data value 3.
E.	the range of the data	F.	the frequency of data value 0.

3. Let the data set be defined by the following frequency table:

$X = x$	1	2	3	4	5
$fr(x)$	1	1	6	3	4

Find:

A.	the range of the data	B.	the frequency of data value 4.
C.	the mode of the sample	D.	the frequency of data value 3.
E.	the range of the data	F.	the frequency of data value 0.

4. Classify each as nominal, ordinal, interval, or ratio data.

a. the pages in the city of Kutztown telephone book.
b. the rankings of tennis players in the French Open men's singles..
c. weights of people in pounds.
d. rating of eight professors on tghat rating of professors web-site (poor, fair, good, excellent).
e. time required for a tune-up od a car at Kutztown Auto.
f. marital status of patients in a physician's office.

5. Classify each variable as qualitative or quantitative.

a. number of bicycles sold in 1 year by a large sporting goods store.
b. colours of baseball caps in a store.
c. times it takes to cut a lawn.
d. capacity in cubic feet of a U-Haul truck storage interior.
f. weight of fish caught in the Schuylkill River.

6. Classify each variable as discrete or continuous.

a. number of doughnuts sold each day at The Frying Dutchman.
b. water temperature of the Kutztown swimming pool on a given day.
c. weights of my cats.
d. lifetime (in hours) of a fluorescent light bulb.
e. the number of cheeseburgers sold each day at the Kutztown Burger King