

CUNY York College

Topic: Level of measurement & Frequency Distribution Table

||Booklet # 1 | Math 111 | Prof. Rashidul Bari | Elementary Statistics, Chapter 1 & 2| Sep 5, 2018||

1. Classify each of the following data according to the *level of measurement* (that is state whether it is nominal, ordinal, interval, or ratio):
 - (a) The telephone numbers in a telephone directory.
 - (b) The scores of a class in an exam.
 - (c) Absolute temperatures (that is temperatures measured in Kelvin degrees).
 - (d) Motion Picture Association of America ratings description (G, PG, PG-13, R, NC-17).
 - (e) Average monthly precipitation in inches for New York, NY.
 - (f) Average monthly temperature (in degrees Fahrenheit) for New York, NY.
2. A group of 25 people were observed regarding their TV habits and were found to spend the following number of hours per week watching television:

30	32	34	36	36
37	39	39	41	41
42	42	43	43	44
45	45	45	46	47
47	49	49	52	53

In order to display the data in clearer form,

- (a) determine the class width for four (4) classes,
- (b) construct a frequency distribution showing the class limits for the four classes,
- (c) in the table, show the class boundaries and the class marks,
- (d) construct a histogram, labeling the class boundaries.

3. Construct a histogram to represent the data shown for the record high temperatures for each of the 50 states

Class boundaries	Frequency
99.5–104.5	2
104.5–109.5	8
109.5–114.5	18
114.5–119.5	13
119.5–124.5	7
124.5–129.5	1
129.5–134.5	1