 Name:_____

5C: Statistical Tables and Graphs

Class Prep Assignment Due at the beginning of next class

Two Types of Data

Quantitative (Numerical) **Qualitative (Categorical)**

Description:

Example:

Types of Graphs:

Graphing Qualitative Data

Example 1. A movie review website lists eight 5-star films, nineteen 4-star films, twelve 3-star films, seven 2-star films, and four 1-star films.

a. Make a frequency table for the data.

Movie Rating	Frequency	Relative Frequency	Cumulative Frequency
5-star	8		
4-star	19		
3-star	12		
2-star	7		
1-star	4		
Total			

b. Create the table in a spreadsheet, and then make a frequency bar graph and relative frequency bar graph. Label the axes and give the graph a meaningful title.

c. Make a frequency and relative frequency pie chart using a spreadsheet. Label the axes and give the graph a meaningful title.

Please print all of your graphs and staple them to the Class Prep Assignment to turn in.☺

Graphing One-Variable Quantitative Data

Example 2. Here is a set of 15 exam scores for a fictional MTH 105 class at PCC.

31, 62, 65, 70, 76, 81, 82, 82, 87, 88, 89, 94, 95, 98, 100

a. Make a Histogram using a bin-width of 10 points. Label the axes and give the graph a meaningful title.

b. Make a histogram using a spreadsheet. Note that there should not be spaces between the bars for quantitative data.

Graphing Two-Variable Quantitative Data

Example 3. Data for the average price of U.S. movie theater tickets.

Year	1975	1980	1985	1990	1995	2000	2005	2010	2015
Average Price	$2.03	$2.69	$3.55	$4.22	$4.35	$5.39	$6.41	$7.89	$8.43

Make a time-series plot using a spreadsheet. Label the axes and give the graph a meaningful title.

Print all of your graphs and staple them to the Class Prep Assignment to turn in.☺