

The University of Wisconsin- Milwaukee
Geography 247 - Quantitative Analysis in Geography
Lab2 - Fall 2007

In an Excel workbook named “geog247lab2” create four different worksheets named “Histogram”, “Cumulative Frequency”, “Time series” and “Pie” to answer questions 1, 2, 3 and 4 respectively. Save it in the “Desktop” of your computer for further use.

Question1: Construct a categorical frequency distribution for the following people where A = trust in everything they read, M = trust in most of what they read, H = trust in about one-half of what they read, S = trust in a small portion of what they read.

M	M	M	A	H	M	S	M	H	M
S	M	M	M	M	A	M	M	A	M
M	M	H	M	M	M	H	M	H	M
A	M	M	M	H	M	M	M	M	M

Question 2: The number of calories per serving for selected ready-to-eat cereals is listed in the following table. Construct a frequency distribution using 8 classes and then construct a cumulative frequency polygon.

130	190	140	80	100	120	220	220	110	100
210	130	100	90	210	120	200	120	180	120
190	210	120	200	130	180	260	279	100	160
190	240	80	120	90	190	200	210	190	180
115	210	110	225	190	130	111	121	131	141

Question 3: Construct a time series graph for the following temperature (⁰F) data of city X. Compare the two lines to see if there is any trend during the summer months.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1990	19	23	33	44	55	65	71	69	62	50	38	24
2000	25.1	24.5	34.1	45	54.6	30	35	36	62.1	51.2	38.1	25.1

Question 4: Construct a Pie chart for the following data of blood types of 25 students. Show the percentage of each section of pie chart and then answer which blood type has the highest percentage and what is the value.

A B B AB O O O B AB B B B O A O A O O O AB AB A O B A

Important: Remember to include chart Title, category values in X and Y axis, category X axis labels wherever required.