

### **Lab #3: Frequency Distributions & Graphing**

- 1) Create an ungrouped frequency distribution using the following data (number of fish caught when you went ice fishing last weekend). Include the frequency, relative frequency, percent, cumulative frequency, cumulative proportion, and cumulative percent.

13 15 12 15 8 9 8 11 12 15 15 8 9 12 10 11 9 15 12 10 15 8 8 10 11

- 2) Create a grouped frequency distribution using the data below (grades on a 50 point exam). Include the interval, exact limits, midpoints, frequency, percent, cumulative frequency, and cumulative percent.

25 19 28 49 48 37 44 45 22 46 37 31 32 25 36 22 28 29 50 34  
41 40 25 28 19 50 30 22 24 49 46 43 22 28 26 45 34 20 27 39

**For the remaining questions, use the graphing rules presented in class, graph paper, and a ruler/straight edge.**

- 3) Plot the appropriate graph for the following data. The data represents the amount of students in each major at UWSP (fictitious).

Business	20%
Communications	10%
Psychology	30%
Natural Resources	20%
Education	15%
Dance/Theatre	5%

- 4) Plot a frequency polygon for the data in Question #1 above.
- 5) Plot a histogram **and** a cumulative frequency polygon for the data in Question #2 above.

