

First Name:

Last Name:

*) For all graphs, you need to use all appropriate labels or you will miss points!

(4p)

Cleveland ran experiments to evaluate the effectiveness of several visual variables. Order the following visual variables from worst to best by assigning each one a number from the set {1,2,3,4} with (1 being worst, 4 being best).

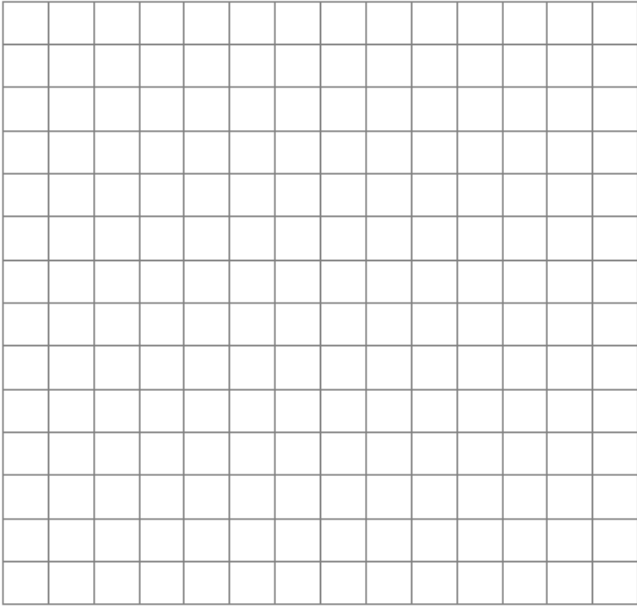
___ Position ___ Area ___ Color ___ Angle

(2p)

Given a dataset with an ordinal variable, your professor asks you to choose a color scheme that is appropriate for visualizing the ordinal variable. What type of color scheme would you recommend and why? (2 sentences maximum)

(4p)

The following dataset gives sugar content for 9 cereals (each cell is a unique cereal, there is no Given the following dataset, draw a histogram with the appropriate labels and values to visualize the distribution of sugars. A histogram requires the designer to choose two parameters. Clearly state your choices for the two parameters (as well as what the parameters are). Hint: h is one parameter, k is not a parameter as h and k are mathematically related (if you choose h, you choose k and vice versa). For the second parameter, use a “nice number” choice (we discussed this concept in class as well).

Name	Sugars	
Apple Cinnamon	10	
Basic 4	8	
Cheerios	1	
Cinnamon Crunch	9	
Clusters	7	
Cocoa Puffs	13	
Count Chocula	13	
Crispy Wheat	10	
Golden Grahams	9	