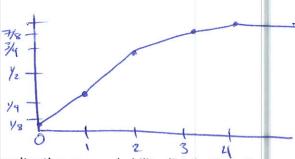
MAT 223, Discussion Questions 9.04

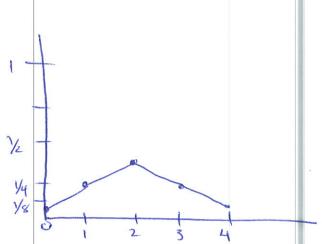
1. Below is a table of a cumulative distribution function for tossing 4 coins and counting the number of heads in each toss. Use this data to create an ogive graph.

		cime diale	to create an object	grupii.	
# of Heads	0	1	2	3	4
Probability	1	5	11	15	1
$(X \leq x)$	16	16	16	$\overline{16}$	



Below is the same situation as a probability distribution. Create a frequency polygon of the distribution.

# of Heads	0	1	2	3	4
Probability	1	1	3	1	1
(X=x)	16	$\overline{4}$	8	$\overline{4}$	16



2. In a cumulative frequency chart/graph, what is the highest value the chart/graph can have?

1 (or total count)

3. What are the advantages of a stem-and-leaf plot over a histogram?

Can read all the data easy to construct from a sated list 4. When creating a stem-and-leaf plot from 2-digit data, when should you split the 10s into groups of 5s instead?

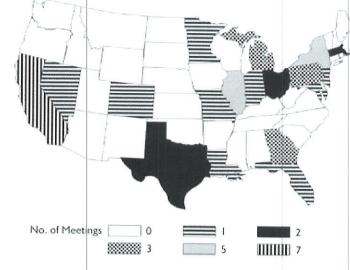
> When there are fewer than 5 bons (generally speaking)

5. The following is a stem-and-lead plot of 12 exam scores. (The stem is the tens place and the leaf is the ones place.) Redo the stem-and-leaf plot for the same data by splitting it into groups of 5s instead. Which one is better?

_	0	61	8
6	8	******	0
7	66	+	
8	0488	7	0 6
9	22666	8	0 4
		8 8	
		9/2	2
		910	066

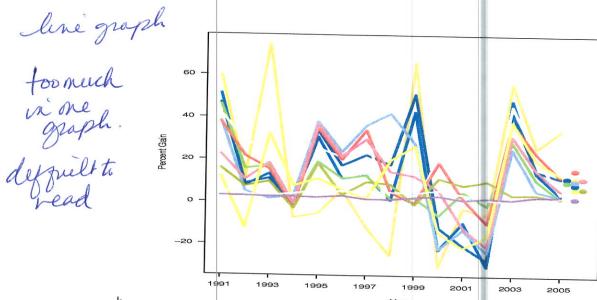
June-senes data quantitatus data

7. What kind of graphs are shown below. If there are problems with the graph, say what they are. Note: not all the graph types shown are covered in the book. If you encounter one, say so.



difficult to look not well-labeled what is it graphing? maps not covered in textbook

a.



b.			Year
	Male		Female
	5, 2, 0	1	5, 8
	5, 1	2	1, 6, 9, 9
	5, 5, 5, 3, 1	3	
	5, 2	4	1, 2, 6, 8
	9, 8, 6, 1, 1	5	5
	6, 5, 5, 0	6	0, 1
	2, 1, 1, 0, 0	7	2
c.			

Comparation Stemplot

Stemplot

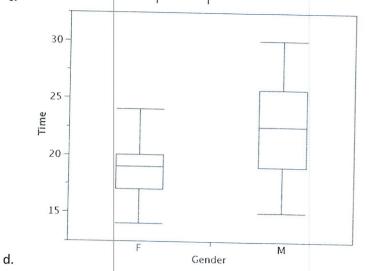
Messing keep

What is being

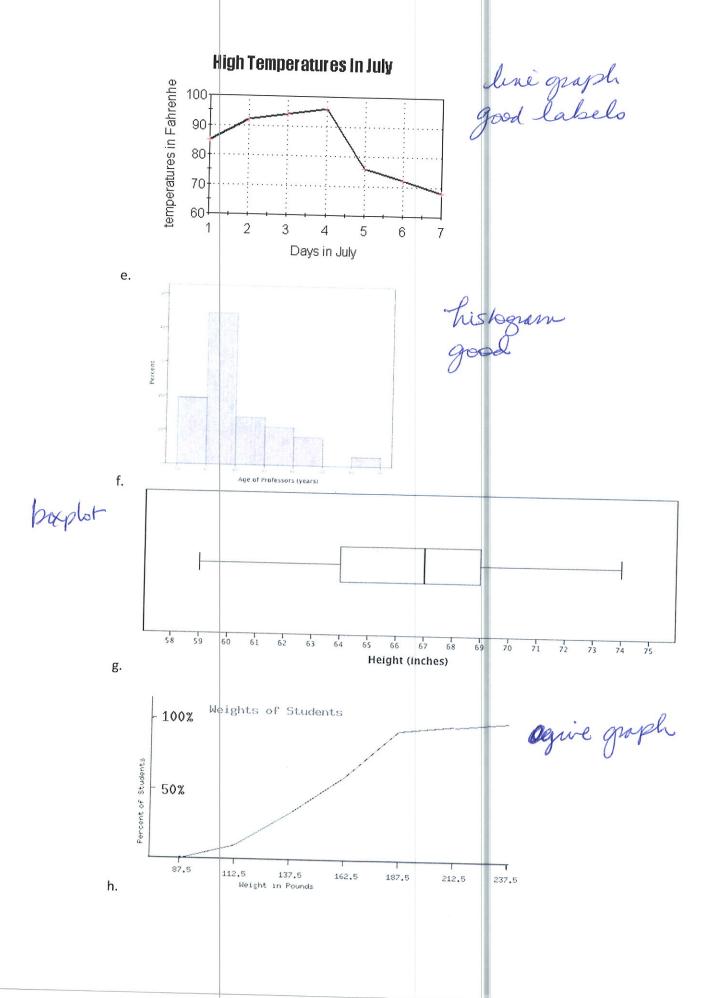
graphed?

What is data

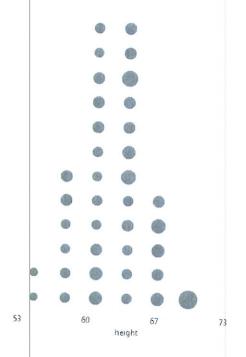
measing?



boxplot needs title



weight



Not sure what size of dok. means.

- 8. Use Google or another search engine to find examples of each type of graph listed below to share with the class.
 - a. Line graph
 - b. Dot plot

i.

- c. Stem-and-leaf plot (stemplot)
- d. Histogram
- e. Bar chart or Pareto chart
- f. Frequency polygon
- g. Ogive graph
- h. Pie chart

answers will vanz find examples by doing an image search

9. Read the following article http://io9.com/how-the-nocebo-effect-can-trick-us-into-actually-dyin-1681746203. What would a nocebo effect look like in education?