MAT 135, Discussion Questions 1.29

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.

II C. I. I		and the colour of the graph.					
# of Heads	0	1	2	3	1		
Probability	1	5	11	15	1		
$(X \leq X)$	16	16	16	16			

next page

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

4 - 511 1					
# of Heads	0	1	2	3	1
Probability $(X = x)$	16	1/4	3	1 1	1
, , ,	10	4	8	4	16

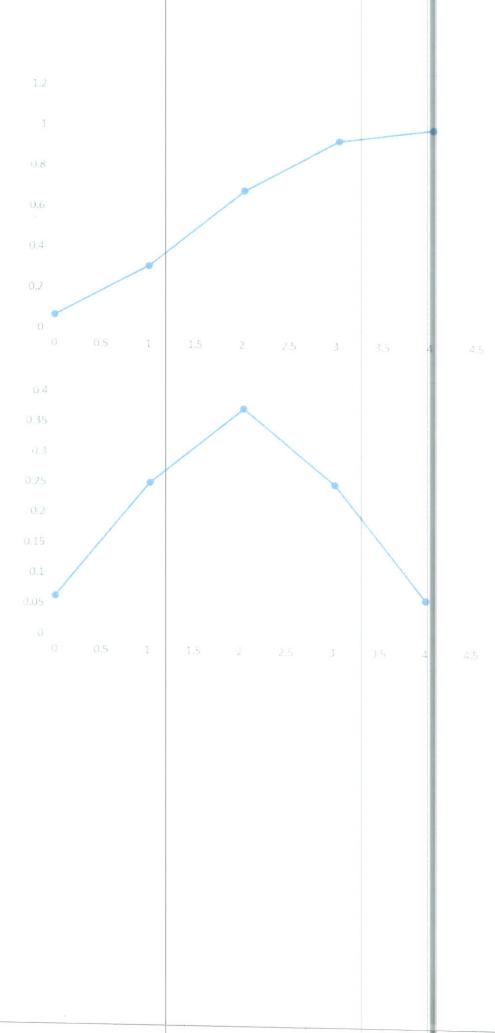
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2. In a cumulative frequency chart/graph, what is the highest value the chart/graph can have?

I or the total (if frequency)

3. When creating a stem-and-leaf plot from 2-digit data, when should you split the 10s into groups of 5s instead?

inorder to get 5 groups



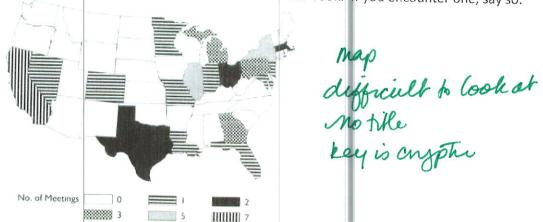
4. The following is a stem-and-lead plot of 12 exam scores. (The stem is the tens place and the leaf is the ones place.) Redo the stem-and-leaf plot for the same data by splitting it into groups of 5s instead. Which one is better?

6	8	6	8			
7	66	7				
8	0488	7	66	4 . 1	0-00-0	· 6.11-
9	22666	8	04	the one work		
		8	88	for this	small de	ela set
		9	122			
		9	666			

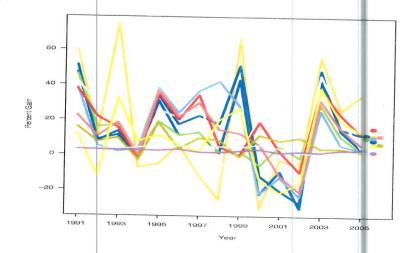
5. What kind of data is used when creating a line graph (typically)?

timesenesdata

6. 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.



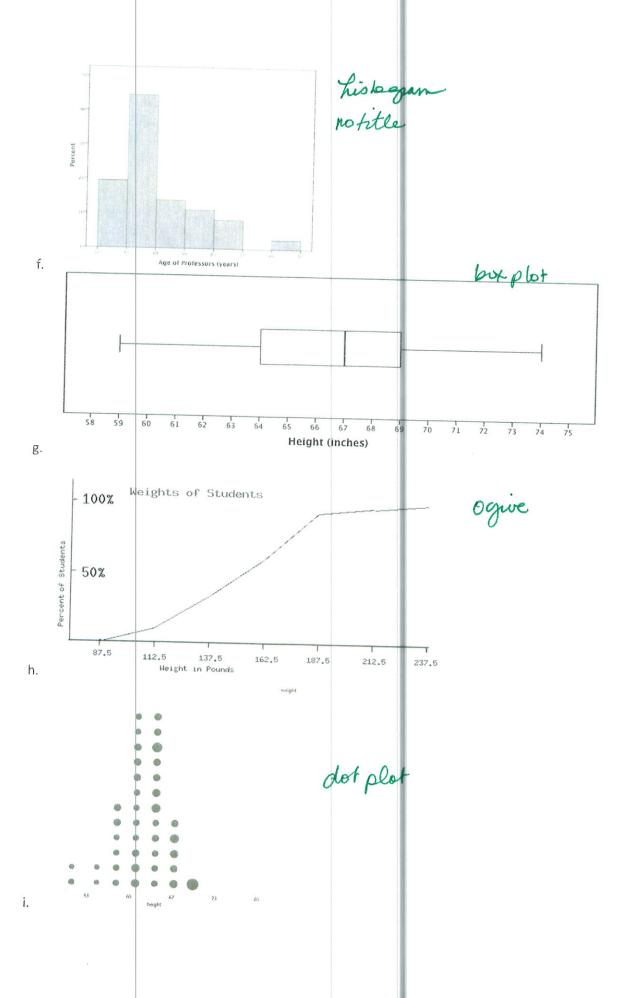
a.



line graph too much data, too many lines no litte

b.

	Male		Female	A sless colot
	5, 2, 0		5, 8	comparative stemplot
	5, 1	2	1, 6, 9, 9	no fittle or key
	5, 5, 5, 3, 1	3		
	5, 2	4	1, 2, 6, 8	
	5, 2 9, 8, 6, 1, 1	5	5	
	6, 5, 5, 0	6	0, 1	
C.	2, 1, 1, 0, 0	7	2	
	30 -			box plot no title #
	25 –			no title .
	E -			
	20			
	15 -	-		
d.	F	Ger	M nder	J
	High Temp	eratur	es in July	
	temperatures in Fahrenhe	3 4 Days ir	5 6 7	line graph
e.		→ A	rouly	
		Iaso	sume these are d	ates.



7. Use Google or another search engine to find examples of each type of graph listed below to share with the class.

answers will vary

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



ber graphs others