## MAT 223, Discussion Questions 9.02

b.

1. What are the steps to create a pie chart?

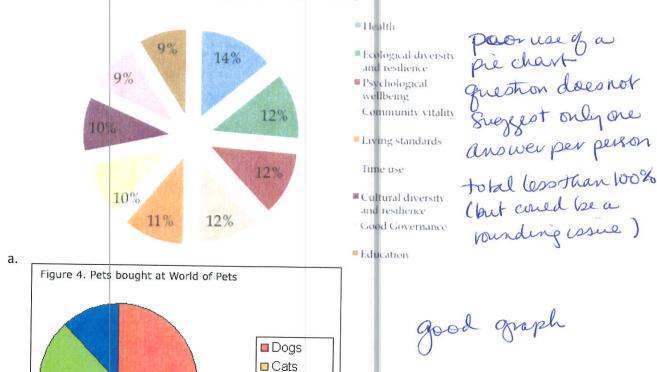
Calculate the relative frequences convert to degrees by multiplying proportions by 3600 duride up the cucle appropriately

2. What kind of data can go into a pie chart?

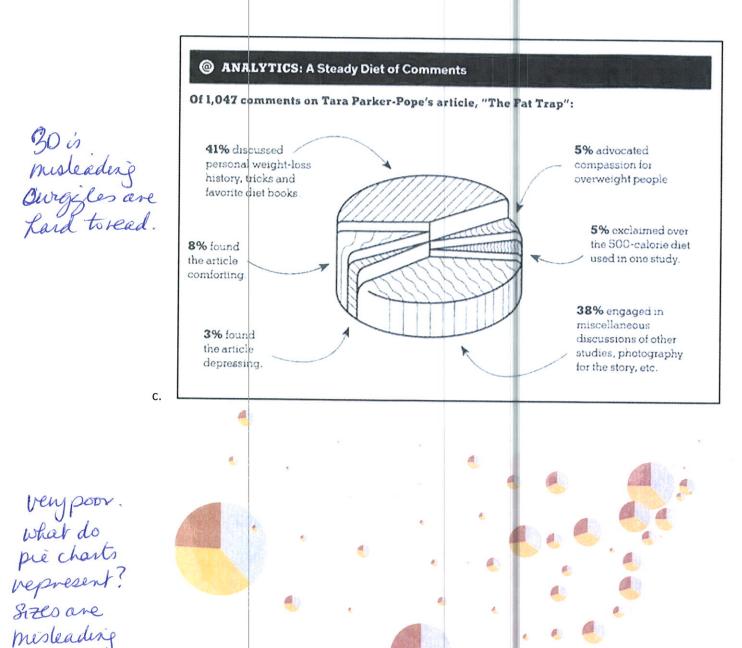
percents & a whole usually qualifature data

3. Comment on the quality of the following pie charts. Are they good, bad or misused?

Figure 4: In which domains do happy people enjoy sufficiency?



□ Birds
□ Fish
■ Other pets



4. What is the difference between a Pareto chart and a bar graph?

and grophs overlap each

Some are to

small to see d.

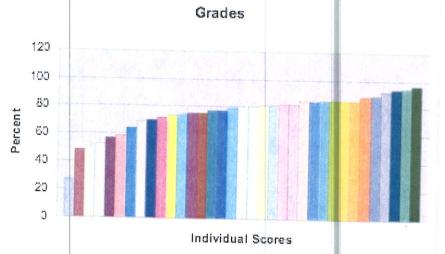
Other

Pareto chart has categores sorted by size a bar graph need not

5. How do histograms differ from bar charts?

his togams plot quantitatus data bor graphs display qualitatus data

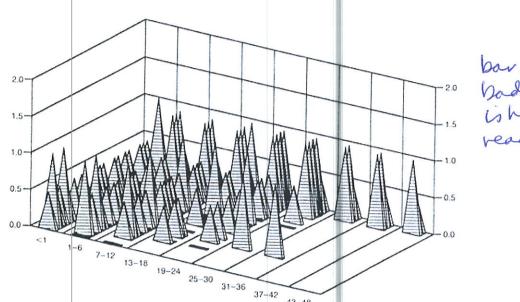
6. For each of the graphs below comment on what type of graph it is (bar, Pareto, histogram), and whether it is good, bad, misused or misleading.



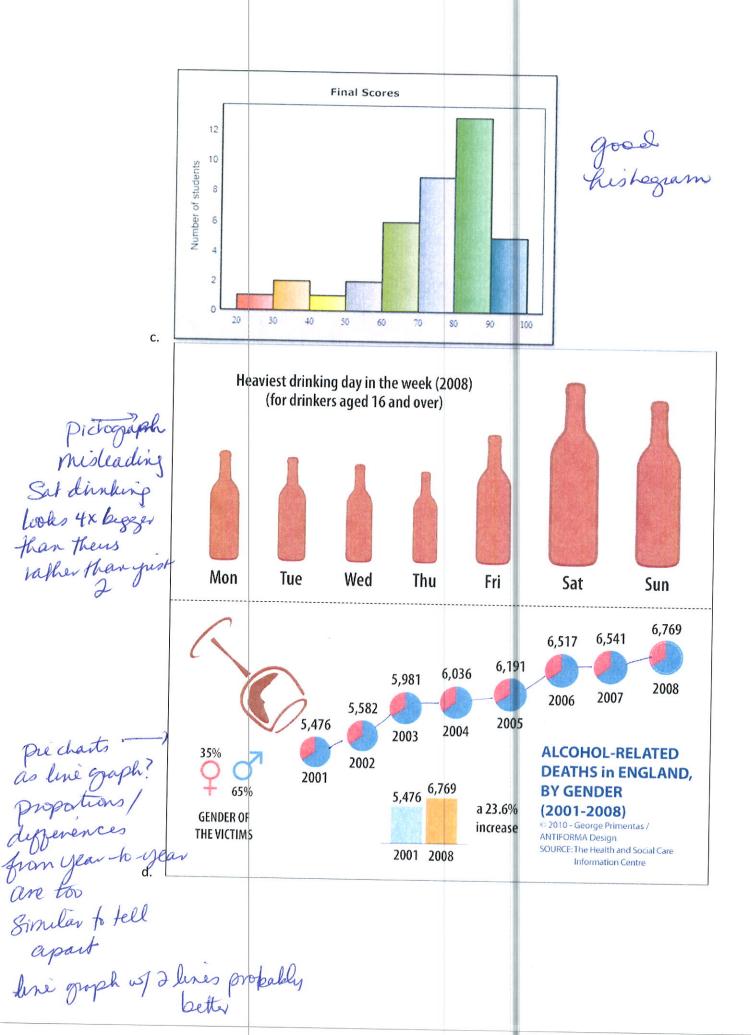
bar bad this should be a histogram

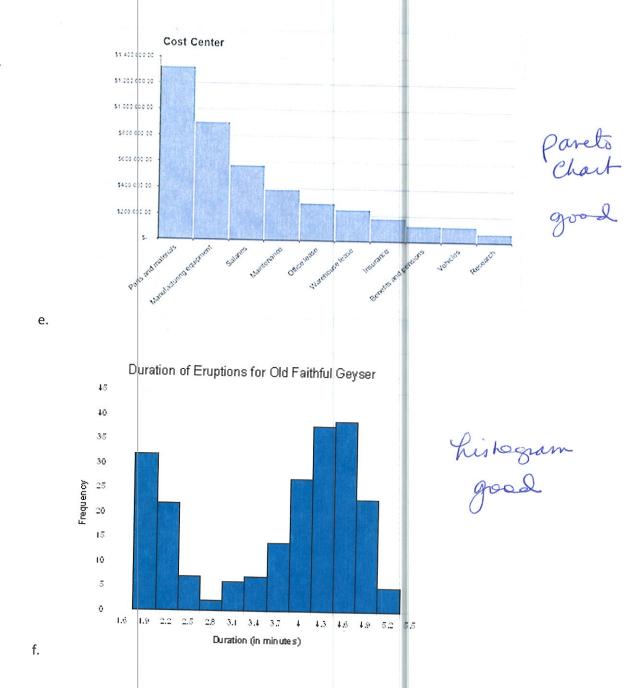
a.

b.



bar. Bad-3D is hard to read.





7. How can we use bar graphs to compare data? Find an example from the web to share.

Eide-by-side or skehed

8. Read the article at <a href="http://qz.com/139453/theres-one-key-difference-between-kids-who-excel-at-math-and-those-who-dont/">http://qz.com/139453/theres-one-key-difference-between-kids-who-excel-at-math-and-those-who-dont/</a>. What kind of qualitative variables could we be concerned about if we wanted to test this claim?