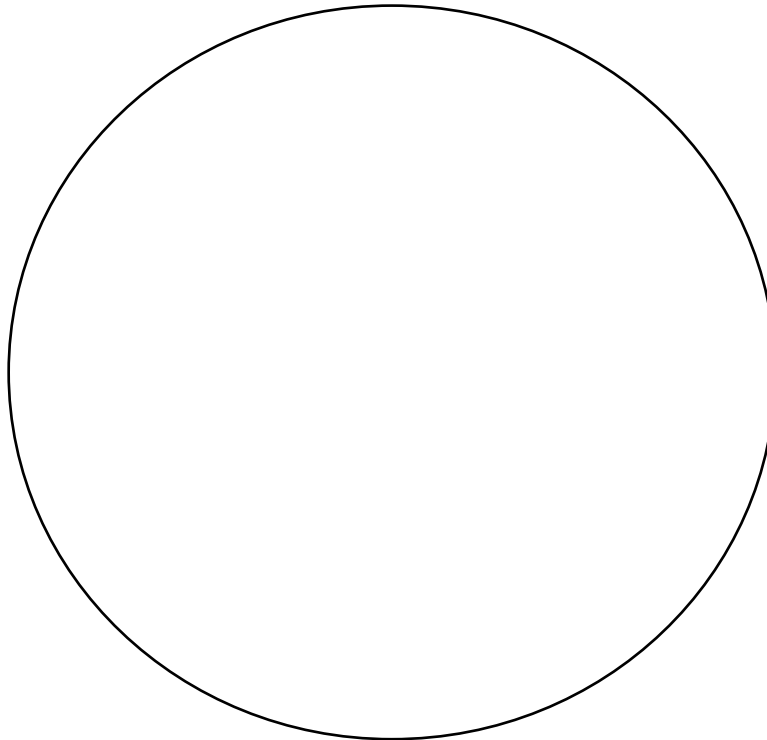Name _____ Date _____ Period _____

CH 2 Displaying Categorical Data

Using our data from yesterday: What is your favorite social media site? Or Who is your phone provider?

A) Pie Chart: Create a pie chart based on counts or percentages. Include a legend.

B) Contingency Table: Create contingency tables based on gender, count and percentage.

Put categories at the top and list the corresponding values for each row & column.

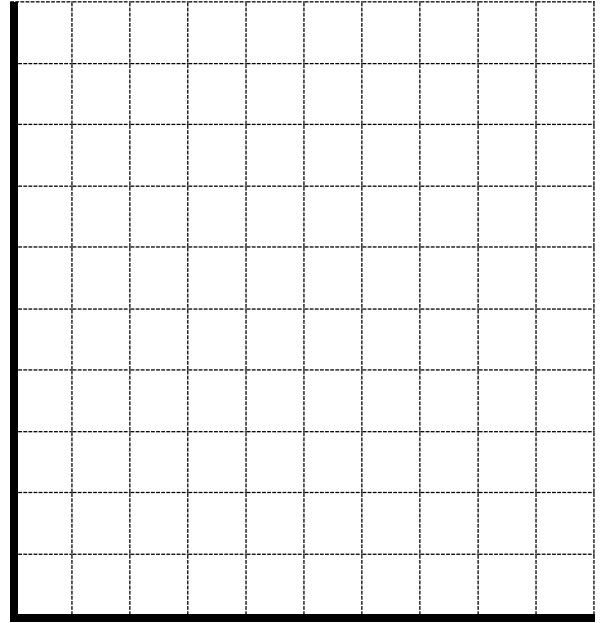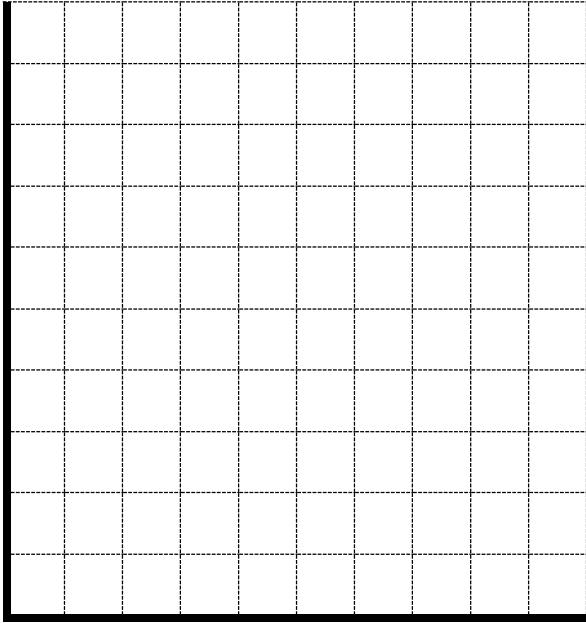| Counts		Total
Male		
Female		
Total		

%		Total
Male		
Female		
Total		

Identify a Marginal Distribution: Male total compared to the overall total.

Identify a Conditional Distribution: Female total compared to a category total.

What is the difference between a marginal distribution and a conditional distribution?

C) Bar Chart: Create a side-by-side bar chart and a segmented bar chart based on gender.

D) After representing our data multiple ways, which display do you find the most effective in describing and showing the categorical data? Explain.

E) What are ways we could go wrong? Explain.

F) Make two conclusions about the data. *Conclusions should include details and evidence from the data and/or displays. Use academic language.*