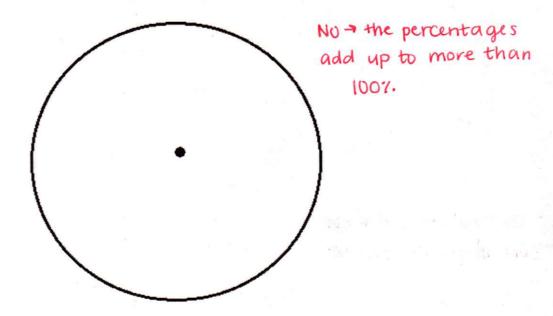
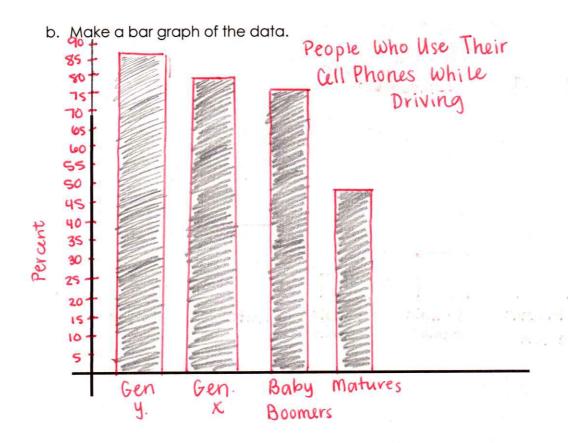
1. The following table summarizes the percent of each group who said they "Always" or "Sometimes" use cell phones while driving:

Generation	Generation	Baby	Matures
Y	X	Boomers	
86%	79%	76%	48%

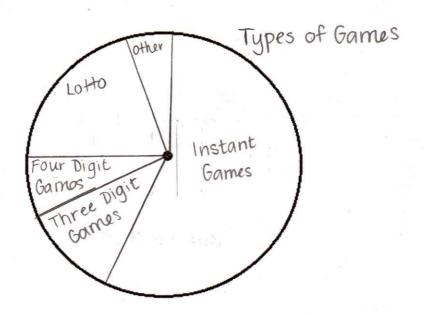
a. Can you use a pie chart to display this data? If yes, the do it. If no, then explain.

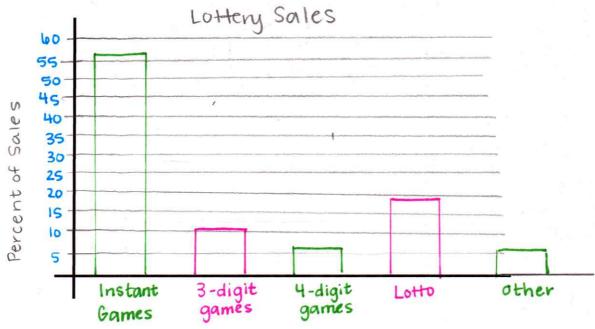




2. States sell many lottery tickets. The following table shows where the money comes from. Make a bar graph and a pie graph displaying the data.

Game	Sales (millions of \$\$)	Percent	Angle
Instant Games	29,736	56.7%	2049 (180°+24°)
Three-digit games	5,586	10.7%	39°
Four-digit games	3,499	10.7.1.	240
Lotto	10,014	19.1./.	v9°
Other	3,579	6.8%	24°
Total	52,414	100%	36°





Types of Garnes

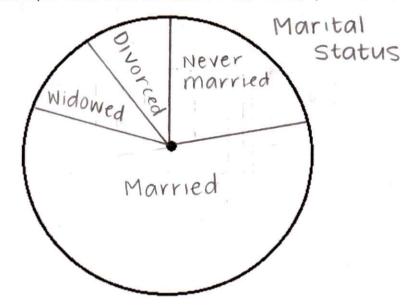
(180 + 24)

3. In the Statistical Abstract of the United States, we find these data on the marital status of adult American women as of 2007:

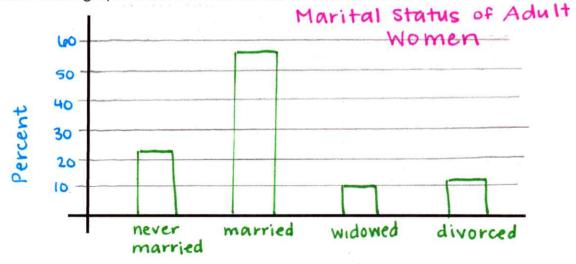
Marital Status	Count (thousands)	Percent	Angle
Never Married	25,262	22%	790
Married	65,128	56.7%	204°
Widowed	11,208	9.8%	35°
Divorced	13,210	11.5%	410
Total	114,807	100%	

a. How many women were not married in 2007?

b. Can you create a pie chart from the data? If so, make a pie chart for the data.



c. Make a bar graph to show the distribution of marital status.



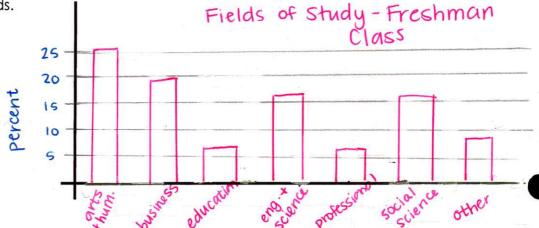
Marital Status

4. For Question #1, what is the sum of the counts for the four marital status categories? Why is this sum not equal to the total given in the table?

rounding - the counts given are in thousands

- 5. A survey of college freshmen asked what field they planned to study. The results: 25.2% arts and humanities, 19.3% business, 7.1% education, 16.6% engineering and science, 7.8% professional, and 15.3% social science.
  - a. What percent plan to study fields other than those listed?

b. Make a graph comparing the percents of college freshmen planning to study various fields.

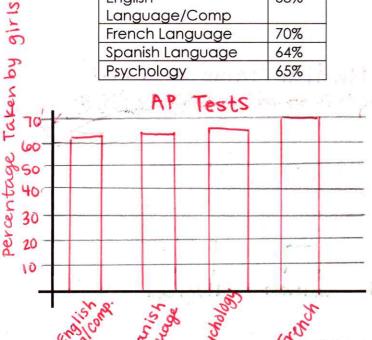


6. Is it true that girls perform better than boys in the study of languages and fields so-called soft sciences? Here are several AP subjects and the percent of exams taken by female candidates in 2007:

English	63%
Language/Comp	
French Language	70%
Spanish Language	64%
Psychology	65%

a. Why can we NOT use a pie chart to display this data?

> the percentages don't add up to 100%.



- b. Make a bar graph of the data (order the bars smallest to largest)
- c. Do these data answer the question about whether girls perform better in these subject areas?

No > there is no data about how the boys