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

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

1. Can you use a pie chart to display this data? If yes, the do it. If no, then explain.
2. Make a bar graph of the data.
3. 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 $$)** |
| Instant Games | 29,736 |
| Three-digit games | 5,586 |
| Four-digit games | 3,499 |
| Lotto | 10,014 |
| Other | 3,579 |
| **Total** | **52,414** |



1. 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)** |
| Never Married | 25,262 |
| Married | 65,128 |
| Widowed | 11,208 |
| Divorced | 13,210 |
| **Total** | **114,807** |

1. How many women were not married in 2007?
2. Can you create a pie chart from the data? If so, make a pie chart for the data.
3. Make a bar graph to show the distribution of 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?
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.
	1. What percent plan to study fields other than those listed?
	2. 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
so-called soft sciences? Here are several AP subjects and the percent of exams taken by female candidates in 2007:

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

1. Why can we NOT use a pie chart to display this data?
2. Make a bar graph of the data (order the bars smallest to largest)
3. Do these data answer the question about whether girls perform better in these subject areas?