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. Make a bar graph to show the distribution of marital status.
3. Can you create a pie chart from the data? If so, make a pie chart for the data.
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?