**AP Stats**

**Chapter 1 - 1.1 day 1 Homework**

**Display Categorical Data Alternate Example**

*What Do Teens Post?*

Here are the percentages of 12- to 17-year-olds who post various types of personal information on their social media profiles, according to the Pew Internet Parent/Teen Privacy Survey in 2012.

|  |  |
| --- | --- |
| **Type of personal information** | **Percent who post** |
| Photo of themselves | 91 |
| School name | 71 |
| City or town where they live | 71 |
| Email address | 53 |
| Cell phone number | 20 |

**Problem:**

1. Make a well-labeled bar graph to display the data. Describe what you see.

(b) Would it be appropriate to make a pie chart for these data? Explain.

**Two way Table and Marginal Distributions Alternate Example**

*Cell phones*

The Pew Research Center asked a random sample of 2024 adult cell phone owners from the United States which type of cell phone they own: iPhone, Android, or other (including non-smart phones). Here are the results, broken down by age category.

<http://pewinternet.org/Reports/2013/Smartphone-Ownership-2013.aspx>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **18-34** | **35-54** | **55+** | **Total** |
| **iPhone** | 169 | 171 | 127 | 467 |
| **Android** | 214 | 189 | 100 | 503 |
| **Other** | 134 | 277 | 643 | 1054 |
| **Total** | 517 | 637 | 870 | 2024 |

**Problem:**

1. Use the cell phone data to calculate the marginal distribution (in percents) of type of cell phone.

(b) Make a graph to display the marginal distribution. Describe what you see.