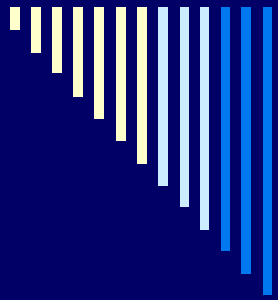


Analyzing and Interpreting Data

Describing and Displaying Data



Part I

- Read *Classifying Types of Data* from “Describing and Displaying Data”
 - Think about the following questions after you read:
 - Why is it necessary to classify data as quantitative or categorical?
 - What are some examples of quantitative data?
 - What are some examples of categorical data?



Part II

- Read *Describing and Displaying Categorical Data of Data* from “Describing and Displaying Data”
 - Make a list of the advantages/disadvantages of each type of display for categorical data:
 - Frequency table:
 - Relative frequency table:
 - Bar chart:
 - Segmented bar chart:
 - Pie chart:



Part III

- Read *Describing and Displaying Quantitative Data of Data* from “Describing and Displaying Data”
- Students will analyze data provided in the SAT National Report
(http://www.collegeboard.com/prod_downloads/about/news_info/cbsenior/yr2007/national-report.pdf)
 - Choose a set of categorical data and create an appropriate display. Describe the distribution in a few sentences.
 - Choose a set of quantitative data (univariate) and create an appropriate display. Describe the center and spread and any unusual features of the distribution in a few sentences.
 - Choose a set of quantitative data (bivariate) and create a scatter plot of the data. Describe the relationship between the variables. Calculate a least-squares regression equation and interpret the correlation. Use the least-squares regression equation to make a prediction.