


Chapter 2
**DISPLAYING AND DESCRIBING
CATEGORICAL DATA**

NUMERICAL SUMMARIES

- ✦ We can create a chart describing the number of occurrences (frequency) and/or the percentage of responses within each category (relative frequency)
- ✦ To get the relative frequency, divide the frequency by the total number of responses and multiply that number by 100

PIE CHART

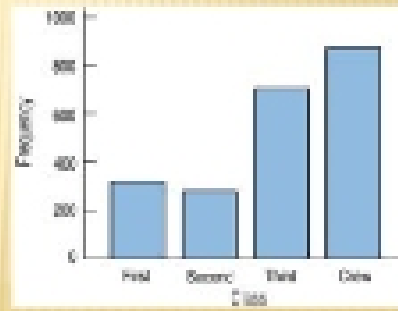
- ✦ Uses slices of a circle to visually depict the proportions of responses.
- ✦ They are useful in summarizing a single categorical variable if there are not too many categories.



From *State Modeling the World* by Beck, Velleman, & De Veaux, 2010, p. 27.

BAR CHART

- ✦ Presents data in a manner that allows for easy visual comparisons between categories
- ✦ The horizontal scale usually represents the classes and the vertical scale usually represents the frequencies, relative frequencies, or percentages



From *Stats: Modeling the World* by Rock, Vealeman, & De Veaux, 2010, p. 22.
