

Chapter 2

## DISPLAYING AND DESCRIBING CATEGORICAL DATA

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### 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

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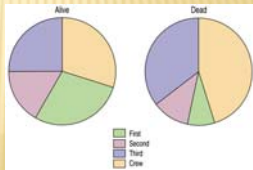
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### PIE CHART

- ✦ 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 Stats Modeling the World by Bock, Velleman, & De Veaux, 2010, p. 27.

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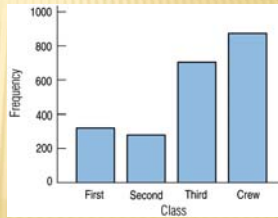
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## BAR CHART

- ✦ 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 Bock, Velleman, & De Veaux, 2010, p. 22.

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