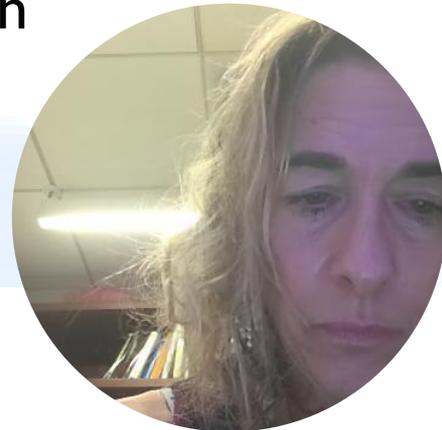


V5 - Descriptive Statistics

Part 4

Course: Statistical Testing & Regression
Dr. Renee Clark
Swanson School of Engineering
Industrial Engineering
University of Pittsburgh



Descriptive Statistics – Part 4

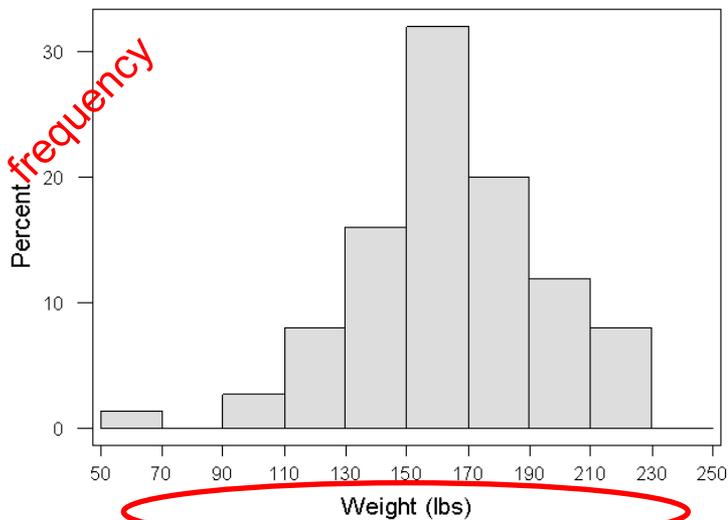
- ❑ Histogram
- ❑ Bar chart
- ❑ Stem and Leaf Plot
- ❑ Cumulative Frequency Graph



Graphically Summarizing Data

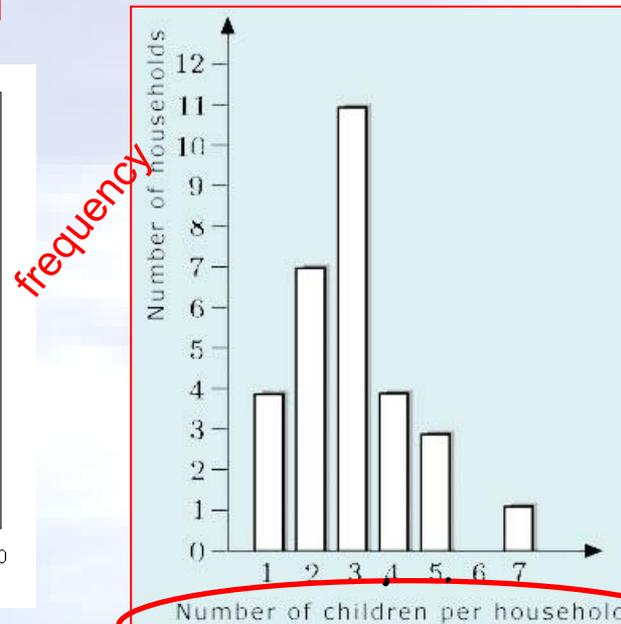
- ❖ First step in data analysis!
- ❖ Histogram
- ❖ Bar Chart

Histogram - Continuous data



Variable: weight
x axis: intervals

Bar chart – count or categorical/
qualitative data

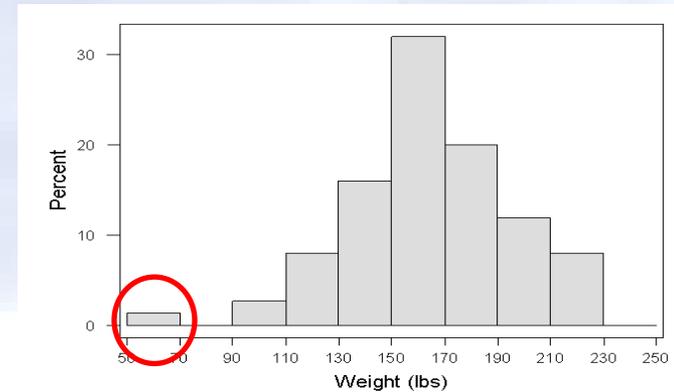


Variable: number of children



Histogram

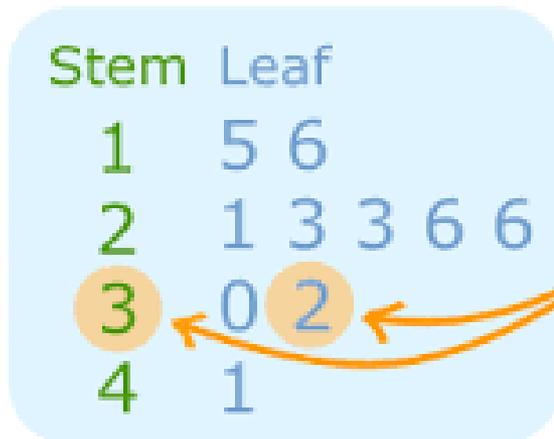
- Shows how _____ data **distributed**
 - Center
 - Variation (spread)
 - Shape (including symmetry)



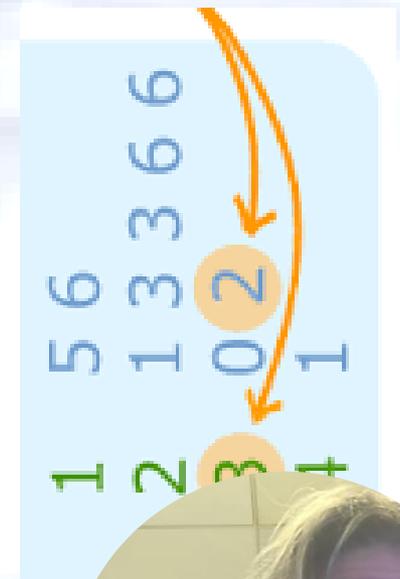
Stem and Leaf Plot

- Another graphical summary tool
- Similar to a histogram or bar chart
 - Turned on its side!

15, 16, 21, 23, 23, 26, 26, 30, 32, 41



how to place "32"



Cumulative Frequency Graph

- Another graphical summary tool

Number of Visits	Frequency	Cumulative Frequency
1-5	35	35
6-10	70	105
11-15	105	210
16-20	40	250
21 - 25	100	350



set of stairs going upward





Acknowledgement

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THE END

