V5 - Descriptive Statistics Part 4

Course: Statistical Testing & Regression
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Descriptive Statistics – Part 4

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

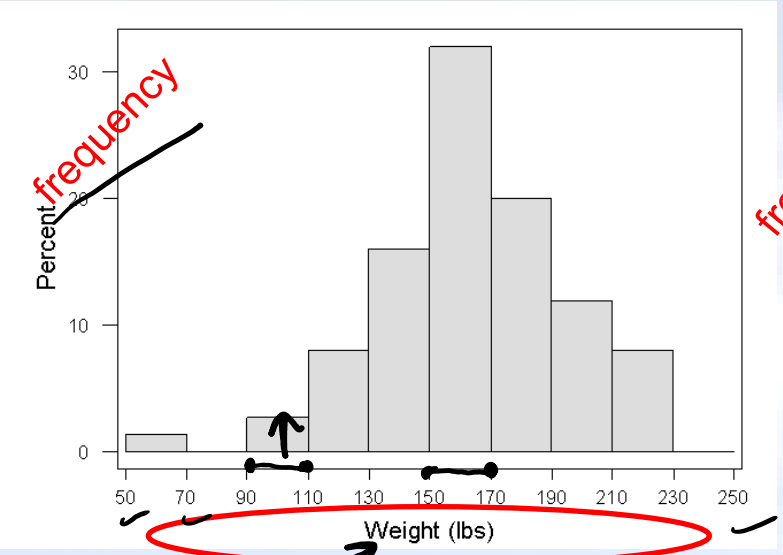
Graphically Summarizing Data

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

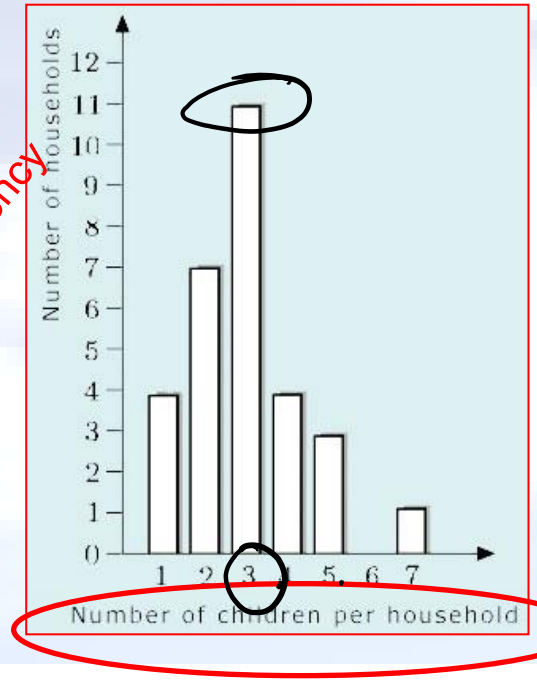
discrete

Bar chart – count or categorical/ qualitative data

Histogram – Continuous data



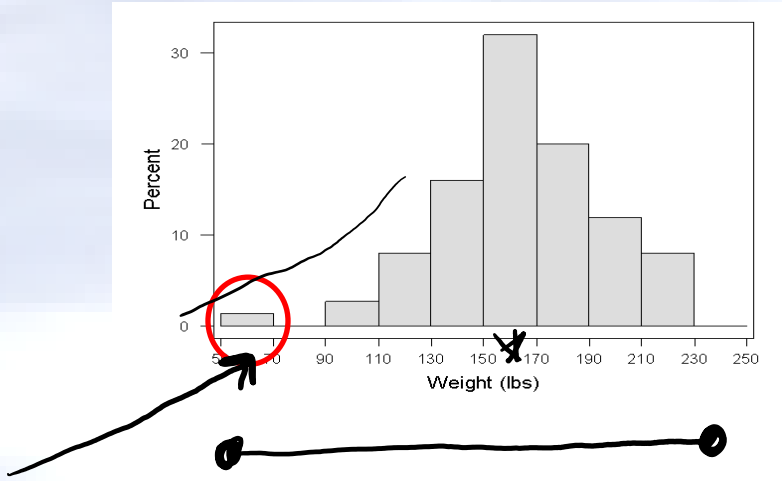
Variable: weight
x axis: intervals



Variable: number of children

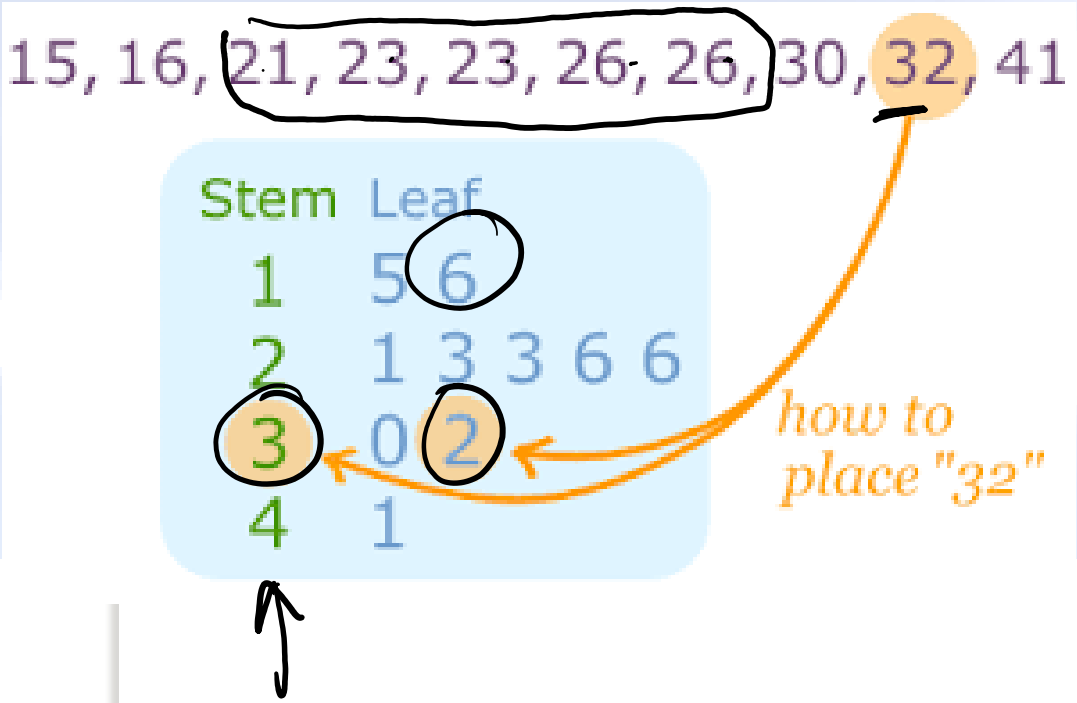
Histogram

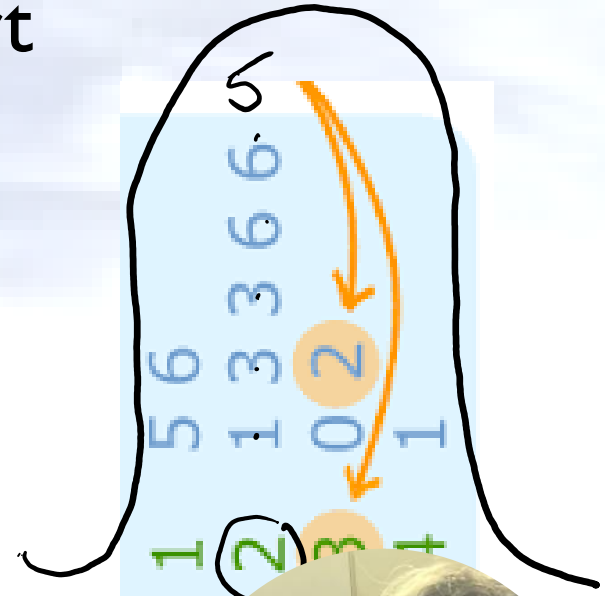
- Shows how continuous data **distributed**
  - Center
  - Variation (spread)
  - Shape (including symmetry)



Stem and Leaf Plot

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

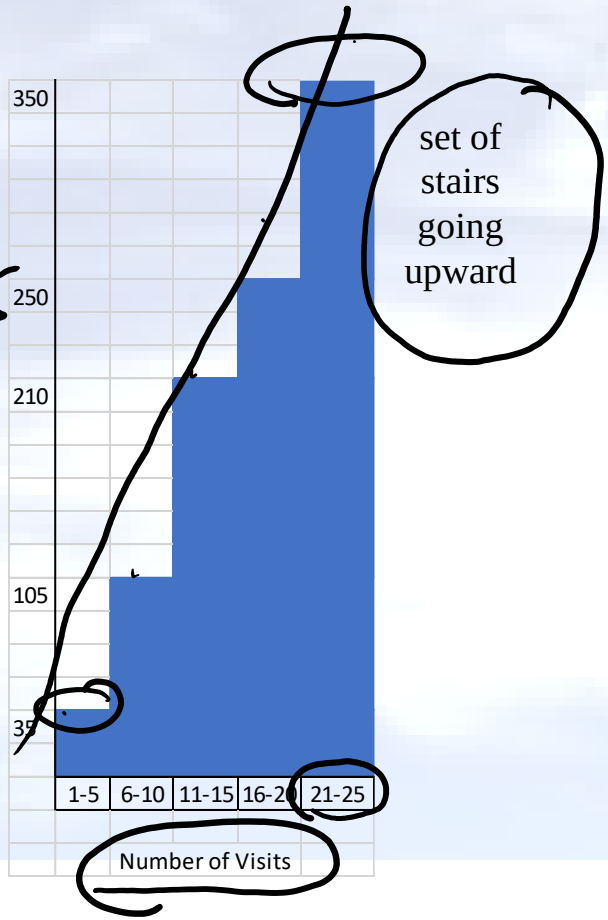




Cumulative Frequency Graph

- 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



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