

12d Thurs April 25

Chapter 1 Summary - end of unit Brainstorming Session

- Frequency tables
- Bar graphs
- Split bar graphs
- Double bar graphs
- Discrete versus continuous data
- Histograms
- Circle graphs
- Stem and leaf plots
- Box and whisker plots

- Scatter plots
- Predictive models: linear, quadratic, exponential, etc.
- Line of best fit LOBF using a ruler and scatter plot
- Equation of a line
 - $y=mx+b$

- LOBF using a Median-Median line
 - Slope calculation... use median 1 and median 3
 - y intercept calculation... $b=(\Sigma y - m\Sigma x)/3$

- coefficient of correlation r
- coefficient of determination r^2

- Residuals
 - The lower the residual sum...
 - The stronger the correlation
 - The more accurate the model
 - The greater the residual sum, the more likely...
 - errors/adjustments in the data analysis
 - weak correlation
 - no correlation
 - not an appropriate model was used

- Cause and effect relationships/Trends
 - Thesis statement
- Predictions
 - Hypothesis statement

- Data supported conclusions
- Data analysis errors and adjustments

- Paper pencil data analysis
- Technology data analysis:
 - Spreadsheet program
 - Online website calculators

Sent from Jim's iPhone