If it were me…and it is…I would study…

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| **Chapter 1**  Quantitative vs Categorical  Drawing and describing:  Boxplots, Stemplots, Histograms, Dotplots, Bar Charts, Pie Charts, Ogives  SOCS  5# Summary  Mean and Standard Deviation  Finding Outliers  Comparing graphs = “er” words  Resistant/Nonresistant | **Chapter 5**  Good Samples: SRS, Stratified, Cluster, Systematic, Multistage, Census  Bad Samples: Voluntary Response, Convenience  Bias: Response Bias, Wording of the Question, Undercoverage, NonResponse  Experiments: Completely Randomized Design Block, Matched Pairs. (double blind) |
| **Chapter 2**  Normal Distributions  Density curves  Percentiles  Standard Normal Curve  z-scores  Normal Probability Plot  Empirical Rule: 68-95-99.7 Rule  Mean vs Median and shape of curves | **Chapter 6**  Steps of simulation  Disjoint: P(A and B) = 0  Independent: P(A and B) = P(A) x P(B)  P(A|B) = P(A)  Yellow Page formulas  Conditional Probabilities  Dice, Cards  Tree Diagrams  Venn Diagrams |
| **Chapter 3**  Scatterplots  LSRL  Find and interpret:  Slope, y-intercept, correlation, coefficient of determination  Yellow Page formulas ( b = )  Residuals  Residual plots  Prediction  Extrapolation | **Chapter 7**  Discrete Random Variables  Continuous Random Variables  Mean and Standard Deviation of chart  Rules for Means  Rules for Variances  NEVER ADD STANDARD DEVIATIONS  Law of Large numbers |
| **Chapter 4**  Transforming non-linear graphs  Exponential (log y)  Power (log x and log y)  Two-way tables  Marginal distributions  Conditional Distributions  Simpsons Paradox  Causation, Common Response, Confounding | **Chapter 8**  Conditions for Binomial and Geometric  Binomial Distributions  Geometric Distributions  “Exactly 2” “ AT most, al least” |