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

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| **Chapter 1**Quantitative vs CategoricalDrawing and describing:Boxplots, Stemplots, Histograms, Dotplots, Bar Charts, Pie Charts, OgivesSOCS5# SummaryMean and Standard DeviationFinding OutliersComparing graphs = “er” wordsResistant/Nonresistant | **Chapter 5**Good Samples: SRS, Stratified, Cluster, Systematic, Multistage, CensusBad Samples: Voluntary Response, ConvenienceBias: Response Bias, Wording of the Question, Undercoverage, NonResponseExperiments: Completely Randomized Design Block, Matched Pairs. (double blind) |
| **Chapter 2**Normal DistributionsDensity curvesPercentilesStandard Normal Curvez-scoresNormal Probability PlotEmpirical Rule: 68-95-99.7 RuleMean vs Median and shape of curves | **Chapter 6**Steps of simulationDisjoint: P(A and B) = 0Independent: P(A and B) = P(A) x P(B) P(A|B) = P(A)Yellow Page formulasConditional ProbabilitiesDice, CardsTree DiagramsVenn Diagrams |
| **Chapter 3**ScatterplotsLSRLFind and interpret:Slope, y-intercept, correlation, coefficient of determinationYellow Page formulas ( b = )ResidualsResidual plotsPredictionExtrapolation | **Chapter 7**Discrete Random VariablesContinuous Random VariablesMean and Standard Deviation of chartRules for MeansRules for VariancesNEVER ADD STANDARD DEVIATIONSLaw of Large numbers |
| **Chapter 4**Transforming non-linear graphsExponential (log y)Power (log x and log y)Two-way tablesMarginal distributionsConditional DistributionsSimpsons ParadoxCausation, Common Response, Confounding | **Chapter 8**Conditions for Binomial and GeometricBinomial DistributionsGeometric Distributions“Exactly 2” “ AT most, al least” |