Study Guide

AP Statistics

CHAPTER TOPIC SECTION

Chapter 1 Analyzing categorical data with graphs 1.1

Display quantitative data with graphs 1.2

* Pie chart
* Boxplots
* Two way tables
* Histogram

 Describe distributions with numbers 1.3

* Mean
* Median
* Mode
* Range
* Standard deviation
* Skewness

Chapter 2 Z-scores 2.1

 Percentiles 2.1

 Transforming data 2.1

 Cumulative relative frequency graph 2.1

 Normal distribution 2.2

 68-95-99.7 rule 2.2

Chapter 3 Correlation 3.1

 Describe how outliers affect correlation 3.1

Residual 3.2

 Interpreting computer regression output 3.2

 Interpreting least squares regression line 3.2

 Writing the least squares regression line 3.2

Chapter 4 Identify sampling methods 4.1

 Identify bias 4.1

 Confounding and cause-and-effect 4.2

 conclusions

Control 4.2

 Experimental designs 4.2

 Design a completely randomized experiment 4.2

Chapter 5 Law of large numbers 5.1

Use a simulation to answer a question 5.1

Probability and two-way tables 5.2

 Probability and Venn diagrams 5.2

 Addition rule and multiplication rule 5.2

Chapter 6 Probability distribution of a discrete random 6.1

variable

Expected value of discrete variables 6.1

 Combining random variables 6.2

 Binomial random variable requirements 6.3

 Geometric random variable 6.3