

AP Statistics | Univariate Data Analysis Unit Overview

Learning Targets

- Describe the shape, center, and spread of a distribution of univariate data using numerical summaries and graphical displays
 - Identify data as categorical (qualitative) or quantitative (numerical)
 - Interpret common graphical displays of univariate data:
 - Stemplots
 - Dotplots
 - Bar graphs
 - Boxplots
 - Histograms
 - Time plots
 - Use a graphing calculator to find the numerical summary for a set of data
 - Measures of Center
 - Standard Deviation & Range
 - 5-Number Summary
 - Use a graphing calculator to construct the appropriate plot for a set of data
 - Boxplot
 - Histogram
 - Time Plot
 - Construct and interpret a bar graph for qualitative data
 - Describe the shape of a distribution as uniform, symmetric, skewed left, or skewed right
 - Describe the center of a distribution using the mean and the median
 - Describe the spread of a distribution using the range, IQR, and standard deviation
 - Interpret the skew of a distribution by comparing the mean and the median
 - Identify outliers in a distribution either informally or using the 1.5 X IQR criteria
 - Interpret a cumulative relative frequency distribution (ogive)
 - Interpret a time plot to reveal trends, seasonal variations, and other changes over time.
 - Compare distributions of quantitative and qualitative variables using displays and numerical summaries
- Interpret the effect of linear transformation on the measures of center and spread in a distribution
- Use the standard normal calculation and the 68-95-99.7 Rule to answer questions about data that is normally distributed

Date	Day	Topic	Assignment
08/28	1	Introduction/syllabus, overview of class	Introduction assignment
08/30	2	Review Chapter 1	Finish Ch.1 summer HW
09/04	3	Review Chapter 1	Chapter 1 Practice Test
09/06	4	Quiz #1 (Chapter 1)	
09/10	5	Review Chapter 2	Finish Ch. 2 summer HW Test corrections for Quiz #1
09/12	6	Review Chapter 2	Chapter 2 Practice Test
09/14	7	Quiz #2 (Chapter 2)	
09/18	8	Review	Test corrections for Quiz #2
09/20	9	UNIT 01 TEST	All homework, practice tests, & quiz corrections DUE