Kittatinny Regional High School

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AP Statistics
Summer Assignment

Read and take notes on all of Chapter 1. You can print out PowerPoints from Google Drive. Also, do all the exercises assigned below. Your notes and exercises will be worth a quiz grade in September. Exercise 48 will also be worth a quiz grade. Come to class with questions and then be prepared to take a chapter test by the end of the first full week.

Lindsay Sadowski
Instructor of Mathematics

Chapter 1: Exploring Data

	The Students Will Be Able To:	**Homework**
Day 1 Intro	Identify the individuals and variables in a set of data, classify variables as categorical or quantitative.	Pages 7 - 8 # 2, 4, 5, 7, 8
Day 2 1.1	Display categorical data with a bar graph. Decide whether it would be appropriate to make a pie chart and identify what makes some graphs of categorical data deceptive.	Pages 20 – 22 # 10, 13, 16, 17(a), 18
Day 3 1.1	Calculate and display the marginal distribution of a categorical variable from a two-way t able, calculate and display the conditional distribution of a categorical variable for a particular value of the other categorical variable in a two-way table, and describe the association between two categorical variables by comparing appropriate conditional distributions.	Pages 22 – 24 # 19, 20, 21, 23, 25, 27-34
Day 4 1.2	Make and interpret dotplots and stemplots of quantitative data, describe the overall pattern (shape, center, and spread) of a distribution and identify any major departures from the pattern, (outliers), identify the shape of a distribution from a graph as roughly symmetric or skewed, and compare distributions of quantitative using dotplots or stemplots.	Pages 41 – 43 #38, 39, 41, 43, 45, 49 **#48 to be handed in for a quiz grade.**
Day 6 1.2	Make and interpret histograms of quantitative data, and compare distributions of quantitative data using histograms.	Pages 43 – 47 # 53, 59, 60, 67, 69-74
Day 7 1.3	Calculate measures of center (mean, median), calculate and interpret measures of spread (range, IQR), choose the most appropriate measure of center and spread in a given setting, identify outliers using the 1.5XIQR rule, and make and interpret boxplots of quantitative data.	Pages 69 – 70 # 80, 82, 83, 85, 88,90
Day 8 1.3	Calculate and interpret measures of spread (standard deviation), choose the most appropriate measure of center and spread in a given setting, and use appropriate graphs and numerical summaries to compare distributions of quantitative variables.	Pages 70 – 73 # 91, 93, 94b, 103, 107-110

CCCS: **S-ID**.1, 2, 3, 5 **S-IC**.1