

2017-2018 AP Statistics Assignments

(see web site for reading guides, glossaries of important terms, notes, HW answers, and other goodies)

Chapter	Day	Topics	Objectives: Students will be able to...	Homework	Reading	1/2O	7/8B
3	0 (post test)	Chapter 3 Introduction 3.1 Measuring linear association: correlation	<ul style="list-style-type: none"> Describe why it is important to investigate relationships between variables. Identify explanatory and response variables in situations where one variable helps to explain or influences the other. Make a scatterplot to display the relationship between two quantitative variables. Describe the direction, form, and strength of the overall pattern of a scatterplot. 	1, 3, 9 10	Section 3.1	26-Sep	27-Sep
3	1	3.1 Facts about correlation <i>Activity - 3.1A Intro to Correlation</i> <i>Activity - 3.1B Regression Internet</i> <i>Activity - Students read 3.1 Facts sheet</i>	Review How to Grade Frappy's <ul style="list-style-type: none"> Recognize outliers in a scatterplot. Know the basic properties of correlation Calculate and interpret correlation in context. Explain how correlation r is influenced by extreme observations. 	15, 17, 21, 26-32	Section 3.2 pgs 164 - 171	28-Sep	29-Sep
3	2	3.2 Interpreting a regression line (LSRL) <i>Activity - 3.2a Intro to Linear Regression</i>	<ul style="list-style-type: none"> Interpret slope and intercept of the LSRL in context Use the least-squares regression line to predict y for given x. Explain the dangers of extrapolation. Explain the concept of least squares. Use technology to find a least-squares regression line. 	Complete Activity 3.2a 35,37,39, 41,43,45	Section 3.2 pgs 172-190	30-Sep	30-Sep
3	3	3.2 Residuals and the LSRL line <i>Activity - 3.2b Distance and Ticket Prices</i>	<ul style="list-style-type: none"> Calculate and interpret residuals in context. Find the slope and intercept of the least-squares regression line from the means and standard deviations of x and y and their correlation. Construct and interpret residual plots to assess if a linear model is appropriate. Use the standard deviation of the residuals to assess how well the line fits the data. Use r^2 to assess how well the line fits the data. Interpret the standard deviation of the residuals and r^2 in context. Identify the equation of a least-squares regression line from computer output. 	HW 47, 49, 54, 56 For more practice : <ul style="list-style-type: none"> Do TPS4e problem on pg164 "Does Fidgeting Keep You Slim." See my handout on key questions. Answers are posted in my web page. 		2-Oct	3-Oct
3	4	<i>Activity #1 - 3.2c Association vs. Causation</i> Activity #2 (new): Ch3 Guided LSRL Review "Concrete Structures"	<ul style="list-style-type: none"> Explain why association doesn't imply causation. Recognize how the slope, y intercept, standard deviation of the residuals, and r^2 are influenced by extreme observations. 	58, 59, 60, 61, 63, 65, 71-78		4-Oct	5-Oct

Columbus Weekend - OFF OCT6 and OCT9

3	5	Review: Practice Frappy's	FRAPPY's (2002Bq1, 2002q4, 2007Bq4, 1999q1)	Chapter 3 AP Practice Test and Complete FRAPPY's Finish Frappy's for HW		10-Oct	11-Oct
3	6	Chapter 3 Test		see chapter 4 assignment sheet		12-Oct	13-Oct