2014-2015 AP Statistics Assigments

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

WARNING: It will be very important that you do the reading assignments when they are assigned and take notes. To stress this importance, there could be a POP QUIZ given at any time on the reading. Pop quizzes will be 1/4 of a test grade. And they will be short, typically 15 minutes.

MULTIPLE CHOICE QUESTIONS: MC questions will no longer be assigned. I highly encourage you to do them. They may be on a Pop quiz.

Chapter	Day	Topics	Objectives: Students will be able to…	Homework	Reading	5/6O	1/2B
6	0	**Chapter 6 Introduction.** 6.1 Discrete random Variables, Mean (Expected Value) of a Discrete Random Variable	• Use a probability distribution to answer questions about possible values of a random variable(RV). • Calculate the mean of a discrete RV. • Interpret the mean of a RV in context.	1, 2, 5, 7	Section 6.1	17-Nov	18-Nov
6	1	**6.1 Standard Deviation (and Variance)** Discrete RV's, Continuous RV's **ACTIVITY: 6.1** includes Technology: Analyzing RV's on the Calculator (page 348)	• Calculate the standard deviation of a discrete RV. • Interpret the standard deviation of a RV in context.	9, 11, 15, 19, 23, 24, 25, 37, 39	Section 6.2 p.358-363	19-Nov	20-Nov
6	2	**6.2 Transforming Random Variables** **ACTIVITY: 6.2A Transforming RV's** included HW Problem #48	• Describe the effects of transforming a RV by adding or subtracting a constant and multiplying or dividing by a constant.	40, 41, 42, 43, 45, 47	Finish Section 6.2	21-Nov	24-Nov
		Thanksgiving Break - NOV26-30					
6	3	**6.2 Combining Random Variables,** Combining Normal Random Variables **ACTIVITY: 6.2B Combining RV's**	• Find the mean and standard deviation of the sum or difference of independent RVs. • Determine whether 2 RVs are independent. • Find probabilities involving the sum or difference of independent Normal RVs.	49, 50, 51, (review #14) 57, 58, 63	Section 6.3 p.382-393	25-Nov	1-Dec
6	4	6.3 Binomial Settings and Binomial Random Variables, Binomial Probabilities, *ACTIVITY 6.3B: Binomial Activity* *ACTIVITY: 6.3B2 Understanding Binomial RV's (finish next class)*	• Determine conditions for a binomial RV are met. • Compute and interpret probabilities involving binomial distributions.	69-72, 75, 76, 78, 80	Section 6.3 p.393-397	2-Dec	3-Dec
6	5	6.3 Mean & StDev. of a Bin. Distrib., Binomial Distrib. in Statistical Sampling **ACTIVITY: 6.3C Understanding Sampling** **ACTIVITY: 6.3N Normal vs. Binomial**	• Calculate the mean and standard deviation of a binomial RV. Interpret these values in context.	81, 83, 85, 87, 88, 91	Finish 6.3	4-Dec	5-Dec
6	6	6.3 Geometric Random Variables, *ACTIVITY 6.3G: Geometric Activity* *ACTIVITY: 6.3G2 Understand Geometric RV's*	• Find probabilities involving geometric RVs.	95, 96, 97, 99 Chapter 6 REVIEW (p.408-409)		8-Dec	9-Dec
6	7	Chapter 6 Review **ACTIVITY: The 12 Days of Statistics**	**FRAPPY's (2001q2, 2002q3, 2008Bq5, 2010q4)**	Complete Frappy's & Ch.6 AP Practice Test		12/10 **1/2 day**	12/11
6	**8**	**Chapter 6 Test**		**#'s 1,3,5,6**	**Section 7.1**	**12-Dec**	**15-Dec**