2016-2017 AP Statistics Assigments

(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	1/2B
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, 9	Section 6.1	30-Nov
		FRAPPY's (2001q2, 2002q3, 2008Bq5, 2010q4, 2011Bq3, 2003q3) will be due the day of the Chapter 6 Test (Tip: Pace yourself)				
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.	11, 15, 19, 23, 24, 25, 37, 39 **(complete ws for HW)**	Section 6.2 p.358-363	2-Dec
6	2	**6.2 Transforming Random Variables** **ACTIVITY: 6.2A Transforming RV's** includes 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 **(complete ws for HW)**	Finish Section 6.2	6-Dec
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, 57(refer to #14), 58, 63, 69 **(complete ws for HW)**	Section 6.3 p.382-397	8-Dec
6	4	6.3 Introduction to Binomial and Geometric Random Variables *ACTIVITY 6.3B: Binomial Activity (graded)* *ACTIVITY 6.3G: Geometric Activity*	• Introduction to Binomial and Geometric RV. • Determine conditions for a binomial RV are met. • Determine conditions for a geometric RV are met.	70-72, 91-96 **(complete ws's for HW)**	Finish Section 6.3	12-Dec
~~6~~	~~5~~	**Quiz 6.1 & 6.2 (TBD 1/2 test grade)**				~~-~~
6	5	6.3 Binomial Settings and Binomial Random Variables, Binomial Probabilities, *ACTIVITY: 6.3B2* *Understanding Binomial RV's*	• Compute and interpret probabilities involving binomial distributions. • Calculate the mean and standard deviation of a binomial RV. Interpret these values in context.	75, 76, 78, 80, 81, 83, 85, 87, 88		14-Dec
6	6	6.3 Mean & StDev. of a Bin. Distrib., Binomial Distrib. in Statistical Sampling *ACTIVITY: 6.3C Understanding Sampling* *ACTIVITY: 6.3N Normal vs. Binomial*		#'s 97, 99 PLUS Chapter 6 REVIEW (p.408-409)		16-Dec
6	7	6.3 Geometric Random Variables *ACTIVITY: 6.3G2 Geometric RV's* *REVIEW: Work on FRAPPY PACKET*	• Find probabilities involving geometric RVs. • FRAPPY's	Ch.6 AP Practice Test **Complete Frappy's**		20-Dec
~~6~~		*~~Chapter 6 Review~~*	~~-~~	~~-~~	~~-~~	*~~No Time~~*
6	8	**Chapter 6 Test**	**BONUS ACTIVITY: The 12 Days of Statistics**	**#'s 1,3,5,6**	**Section 7.1**	22-Dec
		Holiday Break DEC23-JAN2				
		TBD: Cumulative Take Home Test (Chapters 1-6; MC)			**DUE:**	**4-Jan**
		TBD: Cumulative In-Class Test (Chapters 1-6; MC)				**6-Jan**