

2015-2016 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	5/60	
6	0	Chapter 6 Introduction. 6.1 Discrete random Variables, Mean (Expected Value) of a Discrete Random Variable	<ul style="list-style-type: none"> 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	19-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)	<ul style="list-style-type: none"> 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	23-Nov	
Thanksgiving Break - NOV25-29							
6	2	6.2 Transforming Random Variables ACTIVITY: 6.2A Transforming RV's includes HW Problem #48	<ul style="list-style-type: none"> 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	30-Nov	
6	3	6.2 Combining Random Variables , Combining Normal Random Variables ACTIVITY: 6.2B Combining RV's	<ul style="list-style-type: none"> 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	2-Dec	
6	4	6.3 Binomial Settings and Binomial Random Variables, Binomial Probabilities, ACTIVITY 6.3B: Binomial Activity (graded) ACTIVITY 6.3G: Geometric Activity (graded)	<ul style="list-style-type: none"> Introduction to Binomial and Geometric RV. Determine conditions for a binomial RV are met. Determine conditions for a binomial RV are met. 	70-72, 91-96 (complete ws's for HW)	Finish Section 6.3	4-Dec	
6	5	POP Quiz 6.1 & 6.2 (TBD 1/2 test grade)				7-Dec	TBD
6	5	ACTIVITY: 6.3B2 Understanding Binomial RV's	<ul style="list-style-type: none"> 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		7-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)		12/9 1/2 day	
6	7	6.3 Geometric Random Variables, ACTIVITY: 6.3G2 Understand Geometric RV's	<ul style="list-style-type: none"> Find probabilities involving geometric RVs. 	Ch.6 AP Practice Test Complete Frappy's		11-Dec	
6	7	Chapter 6 Review	FRAPPY's (2001q2, 2002q3, 2008Bq5, 2010q4, 2011Bq3, 2003q3)	Complete Frappy's		No Time	
6	8	Chapter 6 Test		#s 1,3,5,6	Section 7.1	15-Dec	
		ACTIVITY: The 12 Days of Statistics		Take Home Test		17-Dec	
Holiday Break DEC21-JAN3			Cumulative Take Home Test (Chapters 1-6; MC)		DUE:	4-Jan	