2015-2016 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	
7	0	*Introduction:* *7.1 Parameters & Statistics*	·Distinguish between parameters & statistics	#'s 1,3,5,6	Section 7.1	16-Dec	Due Jan5
7	1	7.1 Sampling Distributions **7.2 INTRODUCTION**: 7.2 The Sampling Distribution of $\hat{p}$ **ACTIVITY**: Required Guided Notes for Sections 7.1 Sampling Distributions and Section 7.2 Sampling Proportions	• Understand the definition of a sampling distribution. •Distinguish between population distribution, sampling distribution, & distribution of sample data. •Determine whether a statistic is an unbiased estimator of a population parameter. • Understand the relationship between sample size and the variability of an estimator.	Complete7.1 & 7.2 Guided Notes	Section 7.2	5-Jan	
7	2	7.1 Sampling Distributions 7.2 The Sampling Distribution of a sample proportion ***ACTIVITY: 7.1/7.2 Bean Counters (Sampling Distributions of pHAT)*** ***Practice: 7.2 Sample Proportion Examples***	• Find the mean and standard deviation of the sampling distribution of a sample proportion for an SRS of size n from a population having proportion p of successes	**Section 7.1** 10, 12, 17-20 **Section 7.2** 28,29,33,34	Section 7.3	7-Jan	
7	3	7.2 Using the Normal Approximation for the Sampling Distribution of a Sample Proportion ***ACTIVITY: 7.3 Sampling Distributions for Sample Means***	•Check Conditions - whether the 10% and Normal conditions are met in a given setting. • Use Normal approximation to calculate probabilities involving $\hat{p}$ • Use the sampling distribution of $\hat{p}$ to evaluate a claim about a population proportion.	**Section 7.2** 35, 37, 41 **Section 7.3** 49, 51, 53		11-Jan	
7	4	7.3 The Sampling Distribution of a Sample Mean 7.3 The Central Limit Theorem ***ACTIVITY: 7.3 Understanding Sample Means and FRAPPY's (1998q1, 2007q3, 2010q2)***	• Find the mean and standard deviation of the sampling distribution of a sample mean from an SRS of size n. •Calculate probabilities involving a sample mean when the population distribution is Normal. •Explain how the shape of the sampling distribution of is related to the shape of the population distribution • Use the central limit theorem to help find probabilities involving a sample mean $\bar{x}$	**Section 7.3** 56, 57, 59, 60, 63, 69-72		13-Jan	

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				Quarter 3		
7	5	Chapter 7 Review ***ACTIVITY*: Chapter 7 AP Practice Test (1/2 period individual; 1/2 period classwork)**	Chapter 7 REVIEW (p.458-459)		15-Jan	
7	6	**Chapter 7 Quiz/Test (1/2 period) (MC 15 questions @ 4 pts and FRQ for 40 points)**	**Quiz/Test (75% of a Test grade) will be 1st Class of Quarter 3**		26-Jan	

MIDTERM: Chapters 1-7

3 Free Response-50% and 33 multiple choice-50%

Format: http://www.brunswick.k12.me.us/pgroves/files/2013/01/2016-AP-Statistics-Midterm-Format.pdf

Study Tips: www.brunswick.k12.me.us/pgroves/home/ap-statistics/882-2/