

2013-2014 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	5/6O	1/2B
7	0	Introduction: 7.1 Parameters and Statistics,	Distinguish between a parameter and a statistic.	#s 1,3,5,6	Section 7.1	12-Dec	13-Dec
<u>Holiday HW Assignment Due Jan 6/7 -- Graded HW (3x) -- Cumulative AP Practice Test 1 pages 276-279.</u> Show all your work for BOTH multiple choice AND free response. Indicate clearly the methods you use because you will be graded on the correctness of your methods as well as on the accuracy and completeness of your results and explanations. Grading: 4 questions will be randomly selected and graded - 2MC and 2FRQ							
7	1	7.1 Sampling Variability, Describing Sampling Distributions <i>Activity: Bean Counter</i>	- Understand the definition of a sampling distribution. - Distinguish between population distribution, sampling distribution, and the 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.	<u>Section 7.1</u> 10, 12, 17-20	Section 7.2	16-Dec	17-Dec
7	2	7.2 The Sampling Distribution of $\hat{p}$ Using the Normal Approximation for $\hat{p}$ <i>Activity: Sampling Distributions</i>	- Find the mean and standard deviation of the sampling distribution of a sample proportion $\hat{p}$ for an SRS of size n from a population having proportion p of successes. - Check 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.	<u>Section 7.2</u> 28, 29, 33, 34, 35, 37, 41		18-Dec	19-Dec
Extra Day in case of snow (or a review day)						20-Dec	6-Jan
Holiday Break DEC21-JAN5							

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Chapter	Day	Topics	Objectives: Students will be able to...	Homework	Reading	5/6O	1/2B
Midterm covers chapters 1-7							
MIDTERM REVIEW: After School Review Session - Jan 8(W) and 10(F) - Review Cum AP Practice Tests							
7	3	7.3 The Sampling Distribution of $\bar{X}$ Mean and Standard Deviation, Sampling from a Normal Population, $\bar{X}$ <i>Technology: Using an Applet to Simulate the distribution of</i>	- Find the mean and standard deviation of the sampling distribution of a sample mean $\bar{X}$ from an SRS of size n. - Calculate probabilities involving a sample mean $\bar{X}$ when the population distribution is Normal.	<u>Section 7.3</u> 49, 51, 53, 56	Section 7.3	7-Jan	8-Jan
7	4	7.3 The Central Limit Theorem <i>Activity: TBD</i>	- Explain how the shape of the sampling distribution of $\bar{X}$ is related to the shape of the population distribution. - Use the central limit theorem to help find probabilities involving a sample mean $\bar{X}$.	<u>Section 7.3</u> 57, 59, 60, 63, 69-72		9-Jan	10-Jan
7	5	Chapter 7 Review	AP Practice MC Test FRAPPY's (TBD: _____)	Chapter 7 REVIEW (p.458-459)		13-Jan	14-Jan
7	6	Chapter 7 Test				15-Jan	16-Jan
Extra Day in case of snow (or a review day)						17-Jan	
EXTRA CREDIT: Cumulative AP Practice Test 2 pages 461-465 — Due Tuesday January 21st by Noon — Test ($\frac{1}{2}$ test)							
Show all your work for BOTH multiple choice AND free response. Indicate clearly the methods you use because you will be graded on the correctness of your methods as well as on the accuracy and completeness of your results and explanations.							
Grading: 4 questions will be randomly selected and graded - 2MC and 2FRQ							