

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	1/2B	
<p style="text-align: center;">This Chapter is vocabulary intensive.</p> <p style="text-align: center;">It is important you understand the vocabulary, take notes, and come to class prepared to ask AND ANSWER questions.</p> <p style="text-align: center;">I highly recommend you do the Guided Notes, refer to the Glossary of important terms, and even make flashcards.</p>							
4	0 (post test)	4.1 Introduction, Sampling and Surveys, How to Sample Badly, How to Sample Well: Random Samples	<ul style="list-style-type: none"> Identify the population and sample in a sample survey. Identify voluntary response samples and convenience samples. Explain how these bad sampling methods can lead to bias. Describe how to use Table D to select a simple random sample (SRS). 	1, 3, 5, 7, 9, 11, 13	Section 4.1	7-Oct	
Columbus Weekend - OFF OCT9 and OCT12							
4	1	4.1 Other Sampling Methods; Inference for Sampling, Sample Surveys: What Can Go Wrong? <i>Activity 1 : 4.1 Review Sampling Methods and Types of Bias</i> <i>Activity 2 : Frappy's 2001q3, 2008q2</i>	<ul style="list-style-type: none"> Distinguish a simple random sample from a stratified random sample or cluster sample. Give advantages and disadvantages of each sampling method. Explain how undercoverage, nonresponse, and question wording can lead to bias in a sample survey. 	17, 19, 21, 23, 27, 31, 33, 35 Optional: 37-42	Study for 4.1 Quiz	13-Oct	
4	2	4.2 Observational Studies vs. Experiments, The Language of Experiments, How to Experiment Badly <i>Activity : The Jelly Blubber Sampling Design Activity</i>	<ul style="list-style-type: none"> Distinguish between an observational study and an experiment. Explain how a lurking/extraneous variable in an observational study can lead to confounding. Identify the experimental units or subjects, explanatory variables (factors), treatments, and response variables in an experiment. 	45, 47, 51 ½ Test next class 'Analyzing Experiments' due day of Ch4 Quiz	Section 4.2 pgs. 231-236	15-Oct	
4	3	Quiz 4.1 (1/2 test grade)					19-Oct
4	3	4.2 Experiments: How to Experiment Well, 3 Principles of Experimental Design What Can Go Wrong? Inference for Experiments <i>Activity: 4.2a Introduction to Experiments with Frappy's 1998q3 and 1999q3</i>	<ul style="list-style-type: none"> Describe a completely randomized design for an experiment. Explain why random assignment is an important experimental design principle. Describe how to avoid the placebo effect in an experiment. Explain the meaning and the purpose of blinding in an experiment. Explain in context what "statistically significant" means. 	53, 57, 59, 61, 63, 65 Finish Frappy's for HW	Finish Section 4.2	19-Oct	

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4	4	<p>4.2 Experiments: Blocking, Matched Pairs Design <i>Activity: 4.2b Designing Studies</i></p>	<ul style="list-style-type: none"> Distinguish between a completely randomized design and a randomized block design. Know when a matched pairs experimental design is appropriate and how to implement such a design. 	<p>62, 67, 79, 85, 91-98,</p> <p>103, 105, 106</p>	Section 4.3	21-Oct	
4	5	<p>4.3 Scope of Inference, the Challenges of Establishing Causation <i>Activity 1: Frappy's 2000q5, 2002q2, 2004q2, 2003q4, 2006Bq5</i></p>	<ul style="list-style-type: none"> Determine the scope of inference for a statistical study. Evaluate whether a statistical study has been carried out in an ethical manner. 	<p>Chapter 4 AP Practice Test ½ Test next class</p>		23-Oct	
4	6	Chapter 4 Quiz (1/2 test grade)				26-Oct	
4	6	Activity: Cumulative MC Problem Sets (chapters 1-4)			Cumulative MC Problem Sets (chapters 1-4)	26-Oct	
4	7	Multiple Choice Cumulative Test #1 (Chapters 1-4)				28-Oct	
Quarter 1 ends October 30th							