

2018-2019 AP Statistics Assignments

(see web site for reading guides, glossaries of important terms, notes, HW answers, and other goodies)

This Chapter is vocabulary intensive !!!!!!!!!!!!!

- It is important you understand the vocabulary, take notes, and come to class prepared to ask & ANSWER questions.
- I highly recommend you do the Guided Notes, refer to the Glossary of important terms, and even make flashcards.

Graded NOTES - 1/2 TEST(=Quiz) GRADE - 'Analyzing Experiments Study Guide' TYPED, see my website for the template. NO PLAGIRISM!

NO TESTS THIS CHAPTER - 3 QUIZ GRADES - NO TEST CORRECTIONS

Chapter	Day	Topics	Objectives: Students will be able to...	Homework (orange=optional)	Reading	1/2O	7/8B
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, 5, 9, 11, 3, 7, 13	Section 4.1	16-Oct	17-Oct
START (see above) --> Graded Notes 'Analyzing Experiments Study Guide' --> DUE: day of Ch4 Quiz #2							
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, 37-42		18-Oct	19-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 4.1 QUIZ next class	Section 4.2 pgs. 231-236	22-Oct	23-Oct
4	3	Quiz 4.1 (1/2 test grade - NO TEST CORRECTIONS ON QUIZZES)				24-Oct	25-Oct

(over)

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Chapter	Day	Topics	Objectives: Students will be able to...	Homework	Reading	1/2O	7/8B	
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, 61a, 61b, 63, 65	Finish Section 4.2	24-Oct	25-Oct	
4	4	4.2 Experiments: Blocking, Matched Pairs Design <i>Activity: 4.2b Designing Studies</i>	<ul style="list-style-type: none">Distinguish between a completely randomized design and a randomized block design.	62, 67, 79a, 79b, 79c, 85, 91-98	Section 4.3	26-Oct	29-Oct	
		<i>New Activity: Match Pairs</i>	<ul style="list-style-type: none">Know when a matched pairs experimental design is appropriate and how to implement such a design.	103, 105, 106				
4	5	4.3 Scope of Inference, the Challenges of Establishing Causation <i>Activity: Frappy's 2000q5, 2002q2, 2004q2, 2003q4, 2006Bq5</i>	<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.	Chapter 4 AP Practice Test QUIZ next class		30-Oct	31-Oct	
4	6	Chapter 4 Quiz #2 (1/2 test grade - NO TEST CORRECTIONS ON QUIZZES) Reminder: Hand in Study Guide					1-Nov	2-Nov
Quarter 1 ends November 9th								

Prepare for Cumulative Test #1							
cum1	1	<i>HW will be collected the day of the MC Cum, Test #1</i> <i>Activity: Cumulative MC Problem Sets (chapters 1-4)</i>			1) Complete Cumulative MC Problem Sets (chapters 1-4) 2) Cumulative AP Practice Test 1 (pg 276)	tbd	tbd
cum1	2	Multiple Choice Cumulative Test #1 (Chapters 1-4) - Double Test Grade - Goes on Q2				16-Nov	19-Nov