ASSIGNMENT SHEET

Class A.P. Statistics Name_____

Quiz/Notebook Due Dates: Friday, Oct. 26, Nov. 2 Unit # 4 Period_____

Midterm Exam: Thursday, Nov. 8 Unit Title: Designing Studies

Date Assigned	Lesson Number	MAIN IDEAS (Topics & Learning Targets)	In-class points (preparedness, WU, Notes, active learning)	ASSIGNMENT (Practice problems)	Assignment points (complete, work shown)
Thurs 10/18	Quiz 3.2	Quiz day, no notes		Ch. 3 Wrap-Up WS	
Mon 10/22	4.1a	**Sampling & Surveys** • Identify the population and sample in a sample survey. • Identify voluntary response samples and convenience samples, & explain how they can lead to bias. • Describe how to use Table D to select a simple random sample (SRS). • 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		4.1a #1, 3-4, 6, 8-10, 37, 40	
Tues 10/23	4.1b			4.1b #12-13, 15-16, 39, 44	
Wed 10/24	4.1c			4.1c #17-23, 25-26, 38	
Thurs 10/25	4.1d			Review #R4.1-6 (p. 271) #T4.1-2, 4, 7-8, 11 (p. 274)	
Fri 10/26	Quiz 4.1	What am I good at this week? What do I still need to work on? Goal(s) for next week:	Weekly Summary	4.1d #27-36, 41-42	Points on the other side...

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Fri 10/26	Quiz 4.1	Quiz day, no notes		4.1d #27-36, 41-42 (repeated from the other side; don't do it twice!)	
Mon 10/29	4.2a	**Experiments** • Distinguish between an observational study and an experiment. • Explain how a lurking 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. • 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. • 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.		4.2a #45, 47, 49, 53-55, 91, 95-96	
Tues 10/30	4.2b			4.2b #57, 59, 61, 64, 66-68, 98-99	
Wed 10/31	4.2c			4.2c #69, 71, 73, 75, 78-79, 82, 84, 92, 94, 97	
Thurs 11/1	4.2d			Review #R4.7-12 (p. 272) #T4.3, 5-6, 9-10 (p. 274)	
Fri 11/2	Quiz 4.2		Weekly Summary	4.2d #85, 87, 89, 93, 100-101	
Mon 11/5	4.3	**Using Studies Wisely** • Determine the scope of inference for a statistical study. • Evaluate whether a statistical study has been carried out in an ethical manner.		4.3 #102-118	
Tues 11/6	Review	**Review for Midterm** • Chapter 1: Exploring Data • Chapter 2: Modeling Distributions of Data • Chapter 3: Describing Relationships • Chapter 4: Designing Studies		Review #T4.12-14 (p. 275) #AP1.1-10 (p. 276)	
Wed 11/7	Review			Review #AP1.11-17 (p. 278)	
Thurs 11/8	Midterm Exam!	What am I good at in this quarter? What do I still need to work on? Goal(s) for next quarter:	Bonus points for having old quizzes: 1.1-2 1.2-3 2.1 2.2 3.1 3.2 4.1 4.2	Catch up time: make-up work, quiz corrections, finish project if needed!	Bonus points for having weekly summaries: 1.1-2 1.2-3 2.1 2.2 3.1 3.2 4.1 4.2