

AP STATISTICS
Chapter 1 & 2 Homework
CH1: The Role of Statistics and the Data Analysis Process

HW #	Section	Objective	Reading	Homework	Due Date	Questions you have.
1	1.1	To know three reasons to study statistics.	pp. 1-4	Take notes on the three reasons to study statistics.		
	1.2	To understand the concept of variability.	pp. 4-7	In your notes, define variability.		
	1.3	To know the definitions of descriptive statistics, inferential statistics, population, and sample.	pp. 7-8	Define the descriptive statistics, inferential statistics, population, and sample in your notes.		
		To understand the data analysis process.	pp. 8-10	Write the data analysis process in your notes.		
2	1.3	To identify the population and sample.		p. 11 # 3-9 odd		

NOTE: We will come back to section 1.4 after Chapter Two

CH2: The Data Analysis Process and Collecting Data Sensibly

HW #	Section	Objective	Reading	Homework	Due Date	Questions you have.
3	2.2	To know the different types of random sampling along with the associated vocabulary.	pp. 34-35 & pp. 38-39	Define simple random sample, stratified sampling, clustering, and systematic sampling. p. 40 # 11,13,14,15,24		
		To understand the goal and impact of sample size on sampling.	pp. 36-37	Be sure to read and take notes on the light blue box on page 36 and page 37 on sample size. These are important ideas.		
		To understand problem with convenience sampling and voluntary response sampling.	p. 39	p. 40 # 17,18		
4	2.2	To know the different types of bias.	pp. 32-34	Define selection bias, measurement bias, response bias, nonresponse bias, in your notes. p. 41 # 21,22,25,30		

Take good notes when reading and be prepared to for the next day. This will help with the discussion and your understanding. Be sure to take notes on all bold words, italicized print, and the ‘tan’ and ‘light blue’ boxes that are in the reading. Be sure your notes are meaningful to you. In other words, write the definition so you understand it, it is accurate, and complete. Often, we will take notes in class, which results in you reading the section, adding to your class notes, and then completing the textbook exercises.

All textbook problems should be on loose leaf paper as they will be collected periodically.

OVER

CH2: The Data Analysis Process and Collecting Data Sensibly

HW #	Section	Objective	Reading	Homework Problems	Due Date	Questions you have.
5	2.1	To know the difference between an observational study and an experiment.	pp. 27-28	Define observational and experiment in your notes.		
		To understand and identify confounding variables.	p. 29-30	Define a confounding variable in your notes in your own words.		
		To know when it is reasonable to generalize a conclusion to the population.	p. 30	When are the two times you can generalize to the population? Write this in your notes.		
		To know when it is reasonable to draw cause and effect conclusions.	p. 30	When is it reasonable to draw a cause and effect conclusion? Write this in your notes.		
		To apply above objectives.		pp. 31-32 # 1-9 all		
6		Vocabulary Quiz To apply knowledge to previous AP Problem		Radio Problem (1999 #3) Butterfly Problem parts a & b only (1998 #3)		
7	2.3	To understand the four key components of in experimental design. To identify the explanatory variables, response variables, and extraneous factors in experiments. To understand blocking concept, and the definition of confounding.	pp. 42-49	In your notes: Write the four key concepts in experimental design. Define factor, treatment, extraneous factors and confounded. Define explanatory and response variables. Define blocking. pp. 49-51 # 32,33,34,36,37,39		
8	2.4	To understand the use of control and placebo groups in experiment.	pp. 51-52	Define control and placebo groups and why they are important.		
		To understand single blind and double blind in experiments.	pp. 53-54	Define single and double blind in your notes.		
		To apply above objectives.		pp. 54-56 # 40,41,43,46,48,49,		
9		To apply knowledge to previous AP Problem	None	Shampoo Problem in class Cavity Problem (1999 #3) Cholesterol (2000 #5) Magnet Therapy (2002B #3)		
10	2.5	Survey	NONE	NONE		
11	2.6	To review main ideas from Chapter Two	pp. 61-63	Read this section. It is an excellent summary.		
		To review vocabulary from CH2.	pp. 65-66	Optional Review problems are on pages 67-69		

Quizzes & Tests will be announced in class.