

2018/2019 AP STATISTICS SUMMER ASSIGNMENT

AP Statistics is unlike other math courses. It might best be described as “Decision-Making With Uncertainty”. In other math courses there is usually one correct answer... the area under the curve is 23.6, or the value of x is -3.21. There may be many paths to the correct answer. In AP Statistics we must deal with many steps and consider many things that we have incomplete information about. There is not always only one correct answer or approach.

The course requires strong analytical skills, a willingness to learn and follow the scientific method that supports accurate decision-making in the presence of uncertainty, and an ability to write and explain your conclusions in a clear, concise, and persuasive way.

An important component of this course will require you to read our textbook, internalize the information, and be able to speak and write intelligently about the topics covered. The better you become at doing this, the more prepared you will be for the AP exam in May.

Be prepared to discuss each of the reading assignments, as well as the assigned problems, on the first day of school. You should take handwritten notes on each Chapter and write out definitions for all listed keywords. There will be an assessment within the first couple days of the course to measure how much of the material you understand.

I will utilize Google Classroom to communicate over the summer as well as throughout the school year. All links will be posted here as well, to make it a little easier to access. Please be sure to join the classroom (**Code: ttt3n1w**) to stay up-to-date with information.

The PDF files for each of the reading/problem requirements under assignment I:

www.phschool.com/webcodes10/index.cfm?fuseaction=home.gotoWebCode&wcprefix=aze&wcsuffix=0641&x=0&y=0

Video link for assignment II:

http://www.youtube.com/watch?v=cIbr_AksnAc&desktop_uri=%2Fwatch%3Fv%3DcIbr_AksnAc

I. Reading assignments

1) Chapter 11 (Pages 255 – 264)

Keywords: Random, Simulation, Trial, Response Variable

Problems: PAGES 265 – 267 (7, 8, 15, 25, 30)

2) Chapter 12 (Pages 268 – 287)

Keywords: Population, Sample, Sample Survey, Randomization, Parameter, Statistic,
Types of Sampling: SRS, Stratified, Cluster, Convenience, Systematic
Types of Bias: Response, Voluntary response, Non-response, Undercoverage

Problems: PAGES 288 – 291 (2, 4, 9, 10, 13, 20, 21, 27, 30, 32, 34, 35)

3) Chapter 13 (Pages 292 – 311)

Keywords: Observational study, Retrospective study, Experiment, Random assignment,
Factor, Level, Treatment, Principles of Experimental Design, Control,
Blinding (Single/Double), Placebo, Blocking, Matching, Confounding,
Types of Experimental Designs

Problems: PAGES 312 – 316 (2, 6, 7, 10, 17, 30, 33, 34, 37, 40, 41, 44)

II. Video/Summary

Watch the You Tube Video entitled “Naked Statistics” by Charles Wheelan. Take notes on the video and write a one page summary of its contents. The summary should be typed in 12 font, and double spaced. This summary will be due on the first day of class.

You can email any questions to me at cglenn@bordentown.k12.nj.us.