

Summer Assignment
AP Statistics

Please find your summer assignment below.

You are responsible to complete, before the first day of school, each of the problems, in full, with work attached. This assignment will count as one evaluation. Additionally, at the end of the first week of school, there will be a summer assignment exam.

First, you must see a librarian to pick up your textbook: *The Practice of Statistics* by Yates, Moore and Starnes.

Secondly, from your Statistics book, read the preliminary chapter, chapter 1 and chapter 2, then complete:

Preliminary Chapter	P.19-28	Pg 30-33
Section 1.1	1.1-1.25 odds	Pg 46-68
Section 1.2	1.27-1.55 odds	Pg 74-101
Chapter 1 Review	1.60-1.70 all	Pg 106-111
Section 2.1	2.1-2.19 odds	Pg 118-132
Section 2.2	2.23-2.45 odds	Pg 137-158
Chapter 2 Review	2.51-2.61 all	Pg 162-165

Please note that the direction is to read the chapters. Statistics is unlike any other mathematics you will ever take. It is more "soft" and "nuanced." You will need to read the chapters throughout the course of the year to keep up with the mathematics. Please start strongly: READ THE CHAPTERS!

Lastly, you must complete a mini-project using the concepts from Chapters 1 and 2. Come up with an interesting question, about which you can collect data. Examples include asking "how many states have you been to?" or "how tall are you, in inches?" You must collect 50 data points. Using your data, complete a stem plot, histogram, ogive, and boxplot. Give the 5 number summary, the interquartile range, the range, the mean and the mode. Discuss the spread, symmetry and skewness of your data. Determine if there are any outliers. Use a calculator to determine the standard deviation of your data. Identify the most interesting 5 data points, and calculate their z-scores and percentiles.

If you have any questions about the assignment or the process of completing the assignment, please feel free to email me at jpoulin@augustaschools.org. I would strongly encourage you to begin this assignment in July and work slowly to complete it over the remainder of the summer. If you wait until the last week of vacation (or the last weekend) it will likely be too late.

Good Luck, and see you at the end of August.

~J Poulin