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**Course**

AP Statistics

**Contact**

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**NO eBOOKS IN THIS CLASS**

**Description**

Welcome to Advanced Placement Statistics! Thorough completion of the work detailed below is necessary to ready yourself to Advanced Placement Statistics and it is a requirement for admission to the course in September.

The primary course goal is to understand that models of the world are created with statistics. The following topics form the core of the course:

- Exploratory analysis of data making use of graphical and numerical techniques to study patterns and departures from patterns.
- Data collection according to a well-developed plan which ensures that conjectures are supported by valid information.
- Probability tools and methods to anticipate what the distribution of data should look like.
- Statistical inference to guide the selection of appropriate models.

**You will complete the following work by August 31, 2019**, and send this work to Mr. Losardo at [klosardo@tiltonschool.org](mailto:klosardo@tiltonschool.org).

1. Watch the TED Talk at [https://www.ted.com/talks/hans\\_rosling\\_at\\_state?language=en](https://www.ted.com/talks/hans_rosling_at_state?language=en)  
Then submit a reflection about what you learned from Hans Rosling and his view of data and the world. Also discuss what things in the video were surprising to you.
2. Watch the YouTube video below that summarizes some of the basic statistics you should have a working understanding of before entering the AP Statistics course. The video is located at: <https://www.youtube.com/watch?v=QoObR4IVLrs>

Next, complete the worksheet located at the end of this document which asks you to show various representations of the measures of central tendency covered in the video.

3. Please see the list of vocabulary terms below. Please do the necessary research to define thoroughly each of these terms in writing. Please submit these definitions to Mr. Losardo.

# AP Statistics

## **Terms to define (Must be done by hand)**

Statistics, data/datum, individual, case, respondent, subject/participant, experimental unit, observation, variable, categorical variable, quantitative variable, identifier variable, sample, population, context, frequency table/histogram, relative frequency table/histogram, distribution, bar graph, pie chart, distribution, marginal distribution, conditional distribution, stem and leaf plot, dot plot, shape, center, spread, mode, unimodal, bimodal, multimodal, uniform, symmetric, tail, skewed, skewed left, skewed right, outliers, gap, median, range, quartile, interquartile range (IQR), 5-number summary, mean, standard deviation, hypothesis testing

4. Please find online directions to how to do the following on the TI-84 Calculator and familiarize yourself with these processes before the course begins in September:
  - Entering data in a list
  - Changing data
  - Deleting data
  - Naming a new list
  - Clearing a list
  - Deleting a list recreating a list
  - Copying a list
  - Displaying a histogram
  - Displaying a boxplot
  - Calculating 1-Variable Statistics (1-Var Stats)



# AP Statistics

4) Draw a box and whisker plot of this data.

5) Draw a Frequency Distribution of this data.

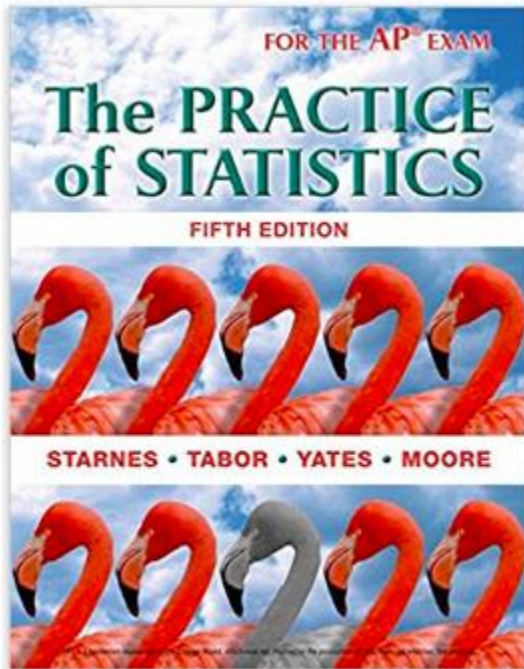
6) Draw a Relative Frequency Distribution of this data.

7) Draw a Dot Plot of this data.

# AP Statistics

Below is the required textbook for this class with the ISBN number.

**NO eBOOKS IN THIS CLASS! YOU MUST HAVE A HARD COPY OF THE BOOK WITH YOU.**



**ISBN-13:** 978-1464108730

**ISBN-10:** 1464108730