

AP Statistics Summer Assignment 2020-21

Livingston High School- Mr. James Page

I would like you to do some online preparation for the class, to promote excitement for the course.

PLEASE JOIN GOOGLE CLASSROOM: class code: 4v6l7bp

To answer these questions, it should take a total of about 3 pages typed, single space, 12-point font with standard margins. If you go beyond 4 pages, you are writing too much! One skill in this course is to write exactly the amount necessary and then stopping. Please spend your time answering these questions using a google document. It will be submitted on Google Classroom. This will be graded as a Special Problem worth 30 points.

TASK I:

- Watch <https://www.youtube.com/watch?v=BhMKmovNjvc>
- Read <https://www.wired.com/2010/04/st-thompson-statistics/>

Question 1... Discuss why someone should take a Statistics class...

Question 2... What was YOUR reason for signing up for AP Statistics?

TASK II:

- Watch https://www.youtube.com/watch?time_continue=2&v=ddf_NMRqsic

Question 3... Describe categorical variables and quantitative variables. What is the difference between them? How do the descriptive methods used differ?

Question 4... Find a statistical study that contains both a discussion of categorical and quantitative variables. Identify them in the study. Copy link to the study as reference.

TASK III:

- Watch https://www.youtube.com/watch?time_continue=8&v=PL6o0kf_mKA
- Watch <https://www.youtube.com/watch?v=uR3MaJdqY3c>

Question 5... What is the difference between a bar graph and a histogram? What are the most important characteristics to describe?

Question 6... Post a link to a 2018 or 2019 news article containing a bar graph and a link to a 2018-2019 news article containing a histogram.

Question 7... What is the difference between mean and median? Why would one prefer median? Why use mean? You may use examples to make your cases.

TASK IV:

- Watch <https://www.youtube.com/watch?v=H3M3oHQnZnc>

Question 8... Why is it important to use context in your graphs and statements?