AP Statistics Summer Packet 2019

Name _____

Dear AP Statistics Student,

Congratulations on your selection of AP Statistics for next year! Statistics is an important tool for many disciplines including medicine, psychology, education, sociology, etc. Statistics is the practice of collecting and analyzing large quantities of data for the purpose of making inferences about a larger group.

You will be expected to commit 7 days to AP Statistics over the summer. The goal is to gain an understanding of study design, i.e. identifying aspects of a study, bias, sampling methods, and the difference between an observational study and an experiment. The summer work is outlined for 7 days, but can be done in as little as 4 days.

It is expected that you will complete the assignments thoughtfully and thoroughly. I will be available through Google Classroom & Remind.

Join the google classroom and remind:

Text @Stat-WHS to 81010 Google Classroom Code: 62rnn3

visit **www.khanacademy.org/join** and enter your class code **5MG7YAXB**.

Summer Work Outline:

Day 1 2 minutes of video, 4 questions	Video: Identifying a sample and population Exercise: Identifying the population and sample 4 questions
Day 2 2 minutes of video, 7 questions	Video: Generalizability of survey results example Exercise: Generalizability of results 7 questions
Day 3 9 minutes of video, article, 7 questions	Video: Examples of bias in surveys, Example of undercoverage introducing bias Article: Identifying bias in samples and surveys Exercise: Bias in samples and surveys 7 questions
Day 4 6 minutes of video, 4 questions	Video: Techniques for generating a simple random sample Exercise: Simple random samples
Day 5 9 minutes of video, 7 questions	Video: Techniques for random sampling and avoiding bias Exercise: Sampling methods
Day 6 Quiz Sampling and observational studies, sampling methods	Study design: Quiz 1
Day 7 20 min of video, article, 7 questions	Video: Types of statistical studies Worked example identifying experiment Worked example identifying observation studies Article: Observational studies and experiments Exercise: Observational studies versus experiments