

AP Statistics Summer Assignment 2015

Welcome to AP Statistics future statisticians!

The purpose of this assignment is to make you comfortable exploring data analysis.

- Reading and Vocabulary: You will use a free online Statistical tutoring site that will give you information on variables and data displays. While reviewing the information on the site you will be completing a vocabulary list.
 - Go to www.stat Trek.com
 - Click on “AP Statistics” then “AP Tutorial” On the left side of the screen is a list of general topics. Under each general topic are a list of subtopics.

You will read the following subtopics to complete the vocabulary list.

General Topic: Exploring Data

Subtopics: Variables, Population vs Sample, Central Tendency, Variability, Position

General Topic: Charts and Graphs

Subtopics: Charts and Graphs, Patterns in data, Dotplots, Histograms, Stemplots, Boxplots, Scatterplots, Comparing data sets .

Upon your return to school in August, you are expected to turn this in completed. Have a great summer!!

Please define each of the following terms on a separate sheet of paper. Use the information on the stat Trek website. Words in blue can be clicked on for more information. When asked provide a unique example or sketch of the word ... one NOT given on the website.

1) Categorical Variables

Example:

2) Quantitative Variables

Example:

3) Discrete Variables

4) Continuous

5) Univariate Data

6) Bivariate Data

7) Population

Example

8) Sample

Example:

9) Median

10) Mean

Formula

11) Outlier

12) Parameter

13) Statistics

14) Range

15) Standard Score (z-score)

Formula

16) Center

17) Spread

18) Variance

Formula

19) Standard Deviation

Formula

20) Symmetry

Sketch

21) Unimodal

Sketch:

22) Bimodal

Sketch:

23) Skewness

Sketch Skewed left

Sketch Skewed right:

24) Uniform

Sketch:

25) Gaps

26) Outliers

Sketch:

27) Dot plots

Sketch:

28) Bar Chart

29) Histogram

30) Difference between bar chart and histogram

31) Stemplots

32) Boxplots

33) Quartiles

34) Range

35) Interquartile Range

36) Four Ways to Describe Data Sets

37) Types of Graphs that can be used for comparing data