

Jim Doran  
EDTECH 505 – Spring 2015  
Week 9 Assignment

Below are listed my Top Three websites from Week Number 9. As mentioned in my Week 11 video, these sites are the only ones that I've bookmarked for future use. Before looking at the specific sites, a bit of background is in order. Not everyone knows this, but I am the proud owner of 5 books on statistics, including "Statistics for Dummies" and "Statistics for the Utterly Confused." The reason for this vast collection is that during my undergraduate statistics course, I just could not, for the life of me, grasp statistical concepts. This isn't due to a math phobia. I can integrate, differentiate and solve linear equations with the best of them, however, where statistics are concerned, my brain turns to mush.

This is what makes these websites valuable to me. My job forces me to deal with statistics when measuring the effectiveness of training that we've given. Therefore I need to keep such references handy to help with this analysis. The background provided, now on to the Top Three.

# Number Three

Measures of Central Tendency [http://www.zweigmedia.com/RealWorld/tutstats/frames8\\_3.html](http://www.zweigmedia.com/RealWorld/tutstats/frames8_3.html)

**Mean, Median, and Mode of a Set of Data**

Consider the following data set. The data set represents the heights of students in a class. The data set is as follows: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0. The data set is as follows: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0.

1) Find the mean of the data set.

2) Find the median of the data set.

3) Find the mode of the data set.

**Mean of a Set of Data**

The mean of a set of data is the average of all the numbers in the set. The mean is also called the arithmetic mean.

Example: Find the mean of the data set: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0.

**Median of a Set of Data**

The median of a set of data is the number in the set that is in the middle. The median is also called the median.

Example: Find the median of the data set: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0.

**Mode of a Set of Data**

The mode of a set of data is the number in the set that appears most often. The mode is also called the mode.

Example: Find the mode of the data set: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0.

**Mean of a Set of Data**

1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0

2. Mean:

3. Median:

4. Mode:

**Mean of a Set of Data**

The mean of a set of data is the average of all the numbers in the set. The mean is also called the arithmetic mean.

Example: Find the mean of the data set: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0.

**Median of a Set of Data**

The median of a set of data is the number in the set that is in the middle. The median is also called the median.

Example: Find the median of the data set: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0.

**Mode of a Set of Data**

The mode of a set of data is the number in the set that appears most often. The mode is also called the mode.

Example: Find the mode of the data set: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0.

**Mean of a Set of Data**

1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0

2. Mean:

3. Median:

4. Mode:

The page displayed above, is only a small sample of what is available on the Finite Mathematics & Applied Calculus website. The information is presented in a question and answer format, and the information is reinforced by real time examples, which can be checked on the fly. The site offers tutorials on statistics and probability as well many other math topics including calculus. Additionally, there is an opportunity, upon completion of a chapter, to participate in a chapter quiz which offers the learner an opportunity to test their knowledge of each module. The best thing about this website is that it offers immediate feedback when performing the exercises allowing the learner to self-correct and to practice in a non-threatening environment.

## Number Two

Kahn Academy <https://www.khanacademy.org/math/probability/descriptive-statistics>

Congrats on your first badge! [Sign up to save your progress](#)

KHANACADEMY Subject: Probability an... About Donate Search for subjects, skills, and videos

DESCRIPTIVE STATISTICS

Measures of central tendency

- Statistics intro: Mean, median and mode
- Finding mean, median and mode
- Mean, median, and mode**
- Exploring the mean and median
- Exploring mean and median
- Comparing means of distributions
- Means and medians of different distributions
- Interpreting and comparing data distributions
- Average word problems
- Inferring population mean from sample mean

### Exploring mean and median

Get the first 2 correct, or 3 in a row

Sometimes the best way to get a sense of numbers is to play around with them. In this exercise, you'll play with the shape of the data and observe the impact on the mean and median.

Arrange the 5 orange points on the number line so the arithmetic mean is 1 and the median is 2. The distance between adjacent tick marks is 1.

Scratchpad not available

Report a mistake in this question

Answer

Check Answer

Show me how

I'd like a hint

Stuck? Watch a video.

Exploring the mean and m

Statistics intro: Mean, median and mc

Finding mean, median and mode

Not enough good things can be said about Kahn Academy. It is one of the best websites for learning on the entire internet. Their section on statistics provides helpful videos, intuitive navigation and well developed questions to help visitors learn about a variety of topics. By forcing visitors to correctly answer a certain number of questions correctly in a row, the site ensures that its user has the required depth of knowledge before they are allowed to continue. Lastly, successful completion of site modules results in the awarding of badges, which encourages learners to move forward and collect more.

## Number One

Analyze This <http://archive.learnhigher.ac.uk/analysethis/index.html>

**Analyze This!!!**  
Learning to analyse data

**Home**

**What comes before?**

**Getting started quiz**

**Qualitative**

**Quantitative**

**Help & Index**

**Contact Us**

**How to work the course**  
You are in the homepage area which explains the course. The sections are marked in a lighter blue in the menu for ease. More course details are in the 'Help & FAQ' page

**1/4 Analyse This!!!**

Welcome to Analyse This!! A free online tutorial that will help you develop your data analysis skills for your coursework studies, projects, and dissertations. The tutorial looks at quantitative and qualitative data analysis, with some practical examples and advice on effectively analysing your data.

**Who is the tutorial for?**  
It's designed to help students in higher and further education who are undertaking data collection and analysis activities for their coursework studies, projects, and dissertations.

**What does the tutorial cover?**  
The tutorial is divided into the following sections:

- Introduction to data analysis: the story, the scenario, what comes before.
- Introduction to Qualitative and Quantitative data.
- Qualitative data analysis.
- Quantitative data analysis.

**What does the tutorial involve?**  
You can work through the whole tutorial by selecting the next button at the bottom of each screen, or use the table of contents in the left margin to skip to a section. Helpful hints, tips and references can be found under the menu on the left and change according to the content on each page.

**A note on style and navigation**  
You can change the font styles, size and colours according to your preferences using the settings on your web browser.  
To navigate through the tutorial, please use the Back and Next buttons on the bottom left of the page. Any links to websites, examples, and references used in this tutorial do not open in a new window, so you need to use the Back button in your browser to return to the tutorial.  
If you are accessing this tutorial from a mobile device and haven't been automatically forwarded to the mobile friendly version, [please do so from this link](#).  
OK, let's get started!

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Don't let the muted colors and minimalist format deceive. Analyze this is filled with information. This is less a statistics site and more about data analysis which makes it ideal for evaluators in training. Each link opens a number of diverse choices for the user to select. There are pages explaining items such as surveys, focus groups and direct interviews. This site is less about the math and more about the how to, and while it lacks the interactivity of the previous two sites, the straightforward manner in which the information is presented is incredibly helpful when stepping through the evaluation process.

## Conclusion

The primary point of similarity between all of the sites in Chapter 9 is that they present their information in a compact, cohesive format. These sites are more handbook than text book which makes them incredibly useful as a quick reference guide. Such guides are useful to those such as myself, who do not plan on making evaluation a career, but are none the less forced to evaluate from time to time as part of their job.

While the sites are similar with regards to material, the methods of teaching that material differ greatly. Some are mostly verbiage. Others strive for a more interactive experience. While some blend the two methods together. As with any type of tutorial sites on the web, it is left to the user to choose how they learn best and seek out websites that apply those techniques.