

Fathom

This is an introduction to a statistics program called Fathom. This assignment is meant to help you become familiar with the program and some of its quirks. Carefully follow the instructions in the textbook for each example you have to do. Make sure you save each question as you go to your **H:** drive, as I will be checking your work. There is a fathom index on pg. 570-593 of your textbook, which you may also find helpful.

1. Introduction
 - (a) Read through and do the examples on pg. 24-27.
 - (b) Do pg. 27 #1, 2. Save on your H: drive as **hockey.ftm** and **marks.ftm**.
2. Mean, median and mode
 - (a) Read through Example 1 and 2 on pg. 127-128.
 - (b) Do Solution 3 Using Fathom on pg. 129. Save on your H: drive **classes.ftm**.
3. Box & Whisker Plots
 - (a) Read through Example 3 on pg. 142-143.
 - (b) Do Solution 3 Using Fathom on pg. 143-144. Save on your H: drive as **starwars.ftm**.
4. Standard Deviation, z-scores
 - (a) Calculate the standard deviation for the above example (**starwars**). You may need to use the index.
 - (b) Make a new attribute (column) and calculate the z-scores. Save on your H: drive as **starwars.ftm**.
5. Correlation Coefficient
 - (a) Read through Example 3 on pg. 165.
 - (b) Do Solution 3 Using Fathom on pg. 166-167. Save on your H: drive as **fueluse.ftm**.
6. Linear Regression
 - (a) Read through Example 2 on pg. 174.
 - (b) Do Solution 3 Using Fathom on pg. 176-177. Save on your H: drive as **rabbits.ftm**
7. Importing Data
 - (a) Import the data from the website, <http://lib.stat.cmu.edu/DASL/Datafiles/hittersdat.html> by creating a new collection and using Import From URL... under the file menu.
 - (b) Create a histogram of OBA. Calculate measures of central tendency and spread. Save on you H: drive as **import.ftm**