#### **PICK UP THE WARM UP**

### Warm Up

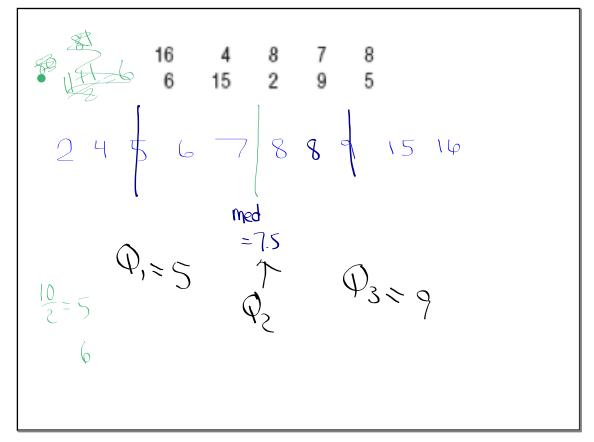
AP Stats Day 1.3 Day 2

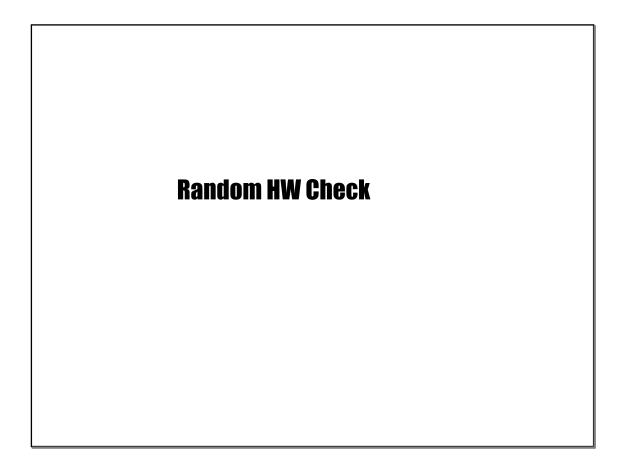
How many likes on Instagram for ASA?

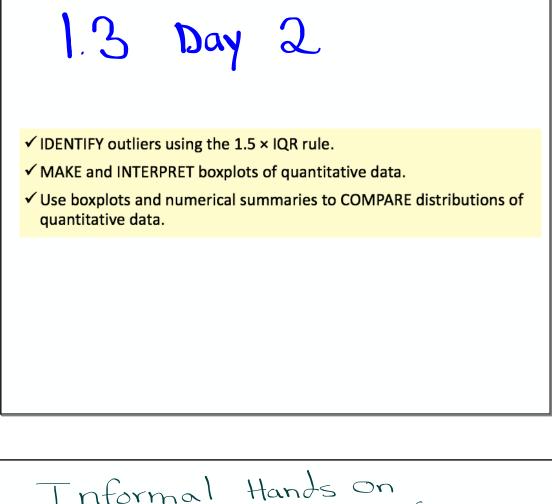
The American Statistical Association (www.amstat.org) has an Instagram account (@amstatnews). Here are the number of Instagram likes for 10 posts selected at random:

16 4 8 7 8 6 15 2 9 5

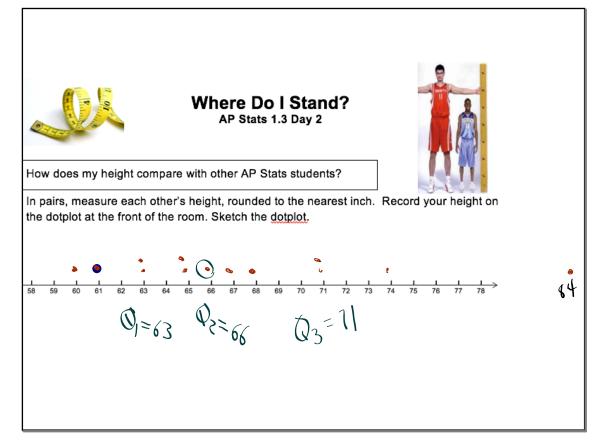
Use the old-fashioned way (no calculators) to find the median  $(Q_2)$  and the lower and upper quartiles,  $Q_1 \; and \; Q_3$ 

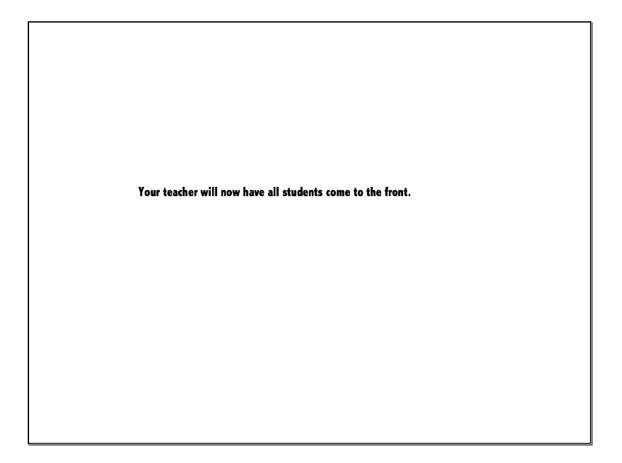






Informal Hands on Activity to get feel of things We'll formalize after

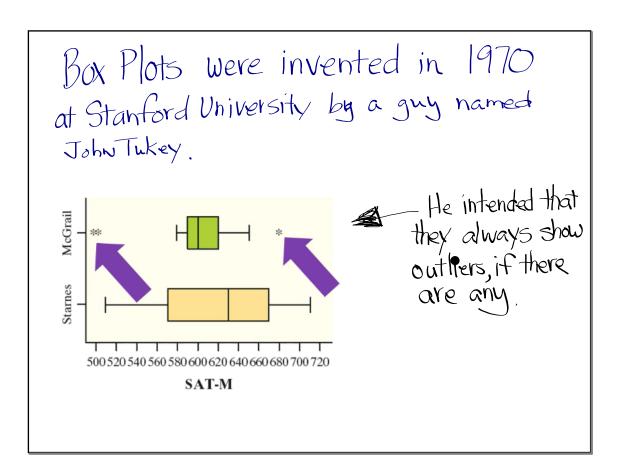


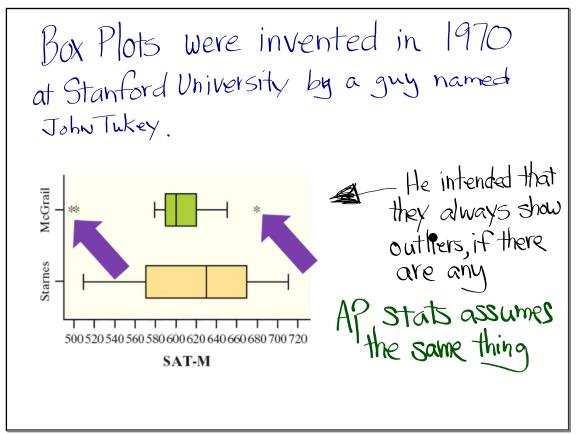




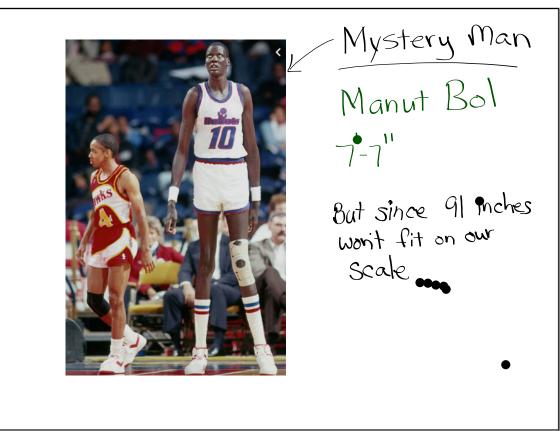
#### Why look for outliers?

- 1. They might be inaccurate data values.
- 2. They can indicate a remarkable occurrence.
- 3. They can heavily influence the values of some summary statistics, like the mean, range, and standard deviation.

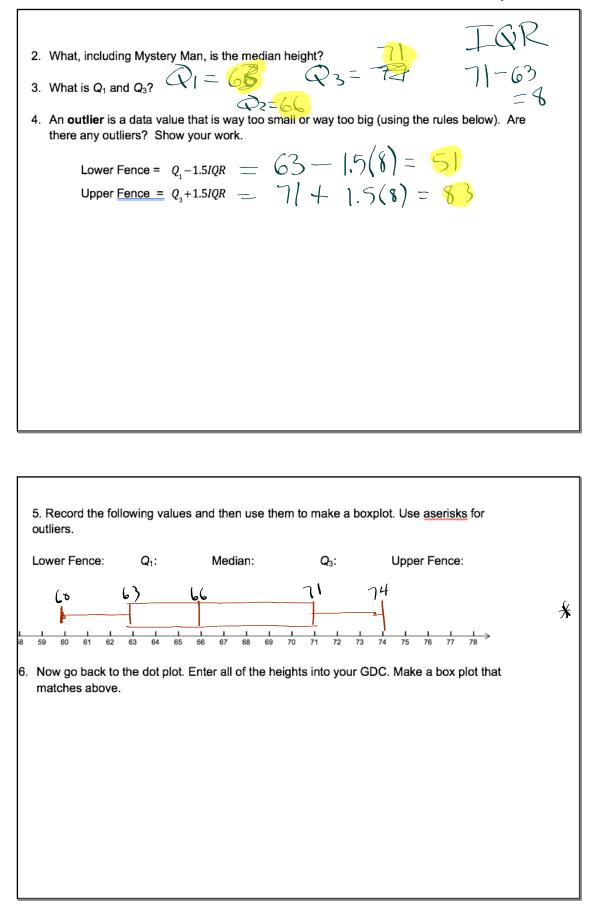


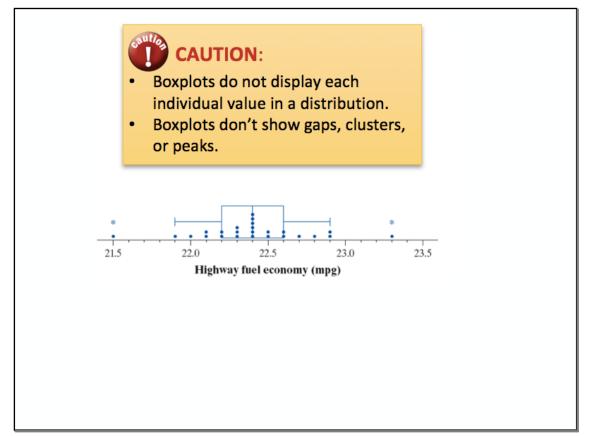


If you see a box plot w/o asterisks then there are no outliers. The same goes if you make one in AP statistics.



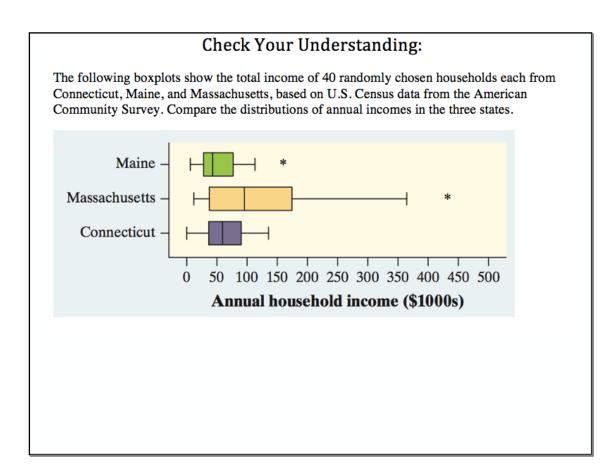
Well use 82" Add it and work on #2#3, and #4



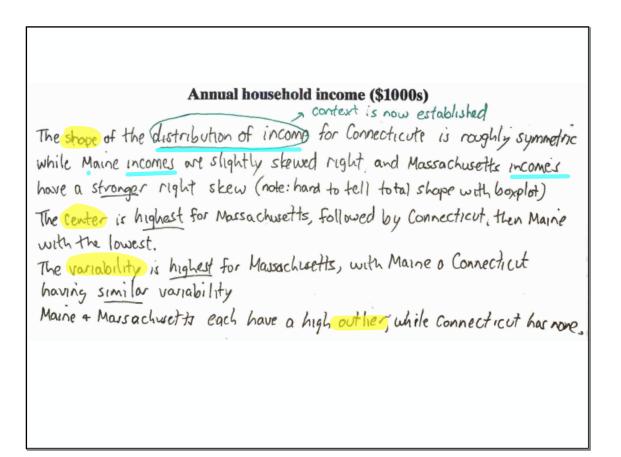


Enter the height data in L, Make a box plot that shows outliers

# Comparing Distributions with Box Plots



shape: COMPARE! DON'T LIST! shape: outliers outliers: center; center: vonability. "less than" variability: "greater than" "similar to" Compare shape. + Context Compare outliers. Compare center. Compare variability.



Brain Break

There is a matching activity on the last sheet. Finish that as part of your HW.



## Assignment

finish the matching activity from class and...

**1.3**....109, 111, 113, 115, 123-126 and finish the

study pp. 66-73