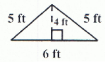**Problem of the Day**

2. The difference of two numbers G and H is greater than 72. Write an inequality which represents the relationship between G and H.

3. Timmy the termite was eating a chunk of wood he found in the trash pile. The chunk of wood weighed 18.5 ounces and Timmy has eaten 30% of it. How many ounces has he eaten?

4. Find the perimeter and area.

5 ft   4 ft   5 ft

6 ft

Jo-Jo

Christian scored a 90, an 86, and a 98 on his first three math tests. Is it possible for him to have an A average (93 or above) after the next test? If so, what must he score?
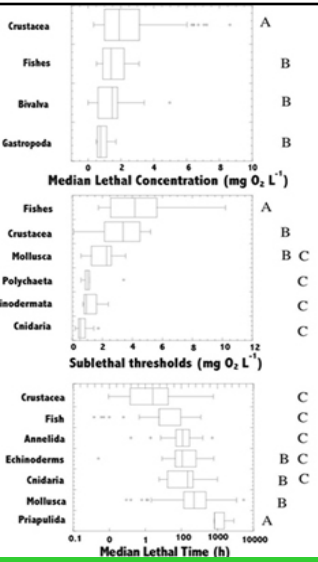
A⁺

Apr 9-10:44 AM

Objective - Organize a set of data and represent it using a box plot. Evaluate / draw conclusions about the data based on the shape and parts of the plot.

How can you use the shape of a box plot to make conclusions about the data it represents?
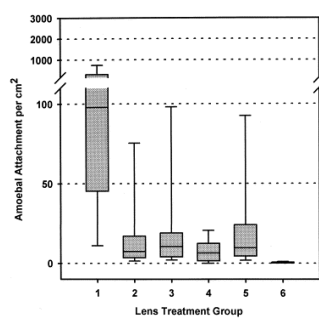
What is a box plot?

Apr 9-10:50 AM

Box Plots showing impact of decreasing oxygen levels (hypoxia) along certain coasts. What impact do you think this could have on our world?

Apr 9-10:27 AM

Salicylate inhibition of *acanthamoeba* attachment to contact lenses

Apr 9-2:16 PM

Box and Whisker plot from Italy - Represents data regarding water quality in high animal poop/fertilizer areas and how to keep it clean

Figura 5: Box and Whiskers delle concentrazioni di azoto totale nell'acqua di drenaggio nelle quattro tesi

Apr 9-9:50 PM

It's non-verbal human graph creation time!

As we make the graph, pay close attention to each step.

Apr 9-3:50 PM

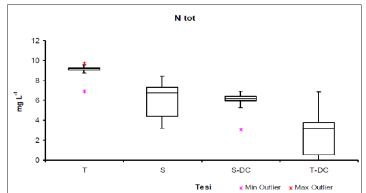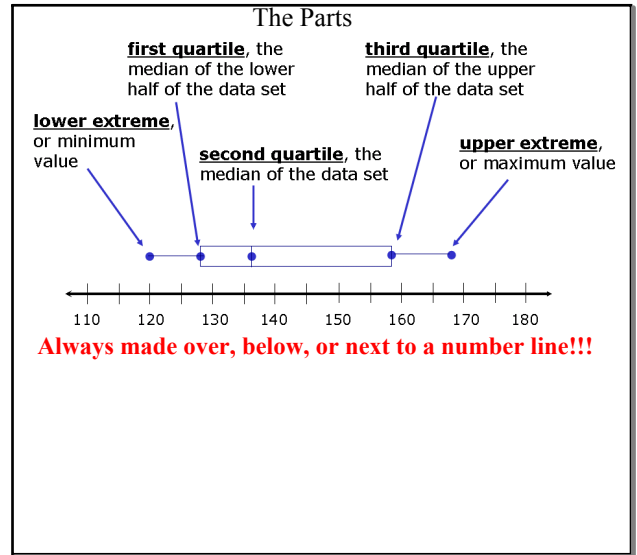In your notes, write the steps for making a box and whisker plot. You will have about 3 minutes.
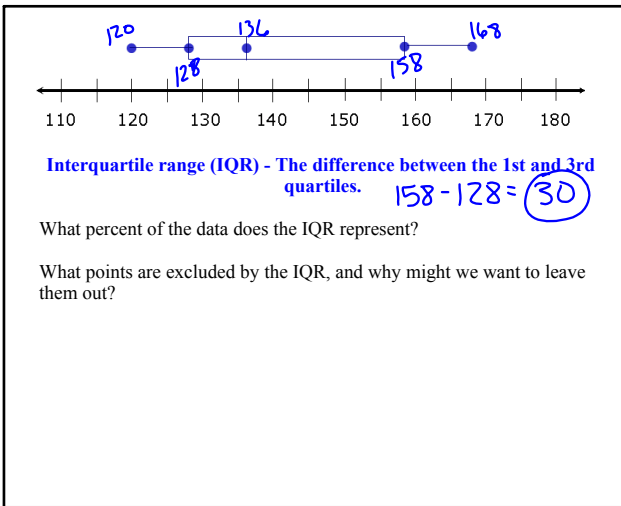
Swap with your right angle partner. Look for things that they may have left out and for steps they have that you did not include and discuss. You have about 3 minutes.
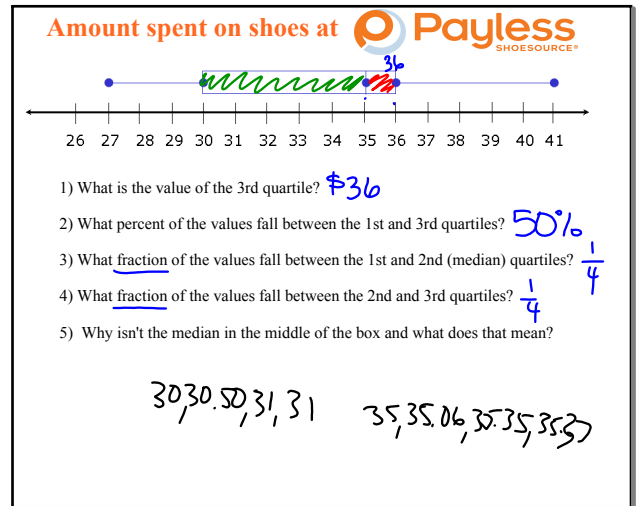
What are the steps?

Apr 9-3:54 PM

The Parts

first quartile, the median of the lower half of the data set

third quartile, the median of the upper half of the data set

lower extreme, or minimum value

second quartile, the median of the data set

upper extreme, or maximum value

110 120 130 140 150 160 170 180

Always made over, below, or next to a number line!!!

Apr 9-4:06 PM

120 136 168
128 158

110 120 130 140 150 160 170 180

Interquartile range (IQR) - The difference between the 1st and 3rd quartiles. $158 - 128 = \boxed{30}$

What percent of the data does the IQR represent?

What points are excluded by the IQR, and why might we want to leave them out?

Apr 9-4:43 PM

Amount spent on shoes at Payless SHOESOURCE®

36

26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

1) What is the value of the 3rd quartile? $36

2) What percent of the values fall between the 1st and 3rd quartiles? 50% $\frac{1}{4}$

3) What fraction of the values fall between the 1st and 2nd (median) quartiles? $\frac{1}{4}$

4) What fraction of the values fall between the 2nd and 3rd quartiles? $\frac{1}{4}$

5) Why isn't the median in the middle of the box and what does that mean?
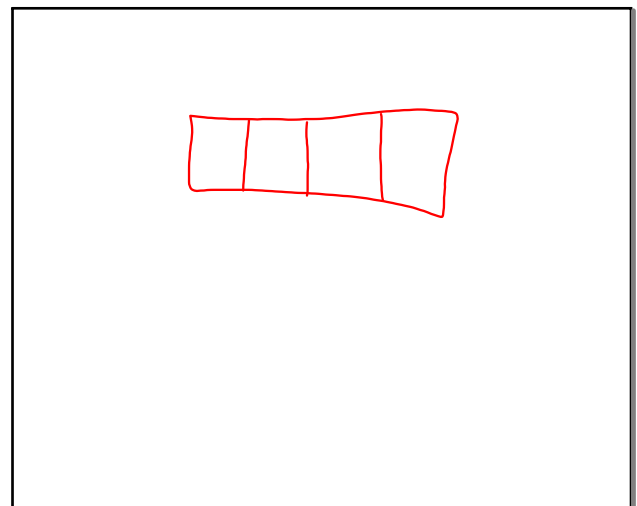
30, 30.50, 31, 31   35, 35.06, 35.35, 35.37

Apr 9-4:25 PM
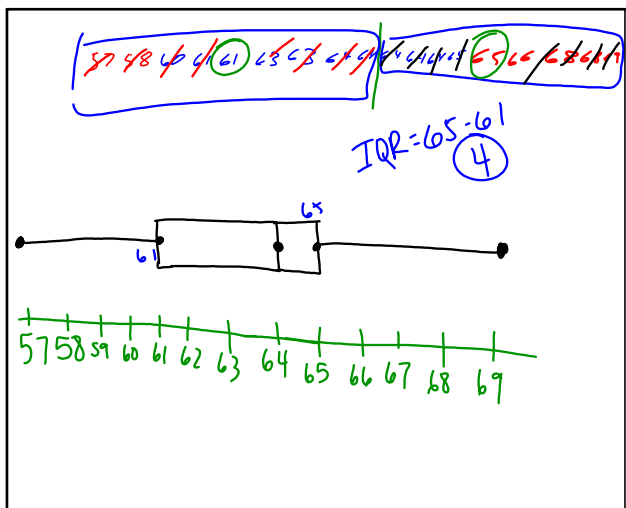
What is the purpose of a box and whisker plot?

What measure of central tendency is the focus of a box plot?

What are the names of the five points?

Apr 10-5:03 PM

Apr 9-10:28 AM

Apr 9-10:39 AM

Practice
2 Options

Feeling "iffy" - Complete Problem 5.1 on pp. 47-48 in Common Core mini - workbook. This will walk you through the creation of another box plot.

Feeling solid (not that kind of solid!) - Complete Challenge WS "Plotting Along"
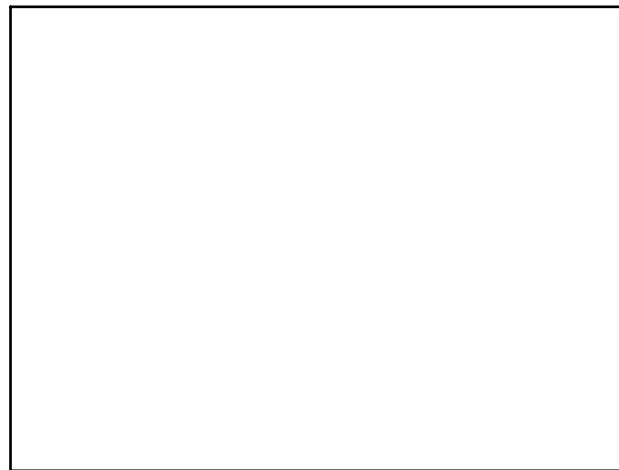
Apr 9-3:58 PM

Homefun

Finish the work you started in class. If you borrow one of my books, you must return it in pristine shape.

Visit

http://illuminations.nctm.org/ActivityDetail.aspx?ID=160

Click on Exploration. You will be given three tasks to complete.

Record the values that you used and be prepared to share with the class.

Apr 9-5:00 PM

Apr 9-8:19 PM