Monday, December 10, 2018

Q1-157QR

- Warm-up
 - Answer the following MC Questions (on each possible answer, show why it is FALSE)

Here are the IQ scores of 10 randomly chosen fifth-grade students:

96 110 118 118 122 125 126 130 139 145

Which of the following statements about this data set is *False*?

If the value 96 was removed from the data set, the median of the remaining 9 IQ scores would be higher than the median of all 10 IQ scores.

- (B) If the value 96 was removed from the data set, the IQR of the remaining 9 scores would be lower than the IQR of all 10 IQ scores.
- (C) If the value 96 was removed from the data set, the standard deviation of the remaining 9 IQ scores would be higher than the standard deviation of all 10 IQ scores.
- If the value 96 was removed from the data set, the standard deviation of the remaining 9 IQ scores would be lower than the standard deviation of all 10 IQ scores.
- Ogive Curves
- Matching Distributions

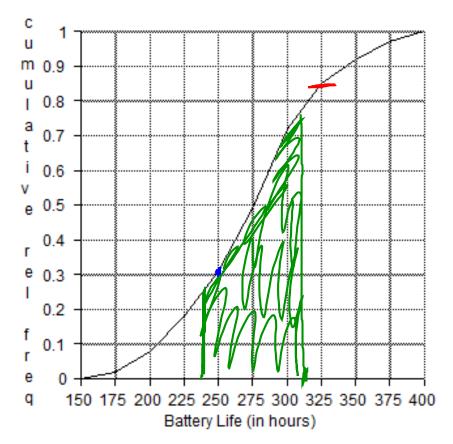
Ogive Curves - Intro & Practice

The following cumulative relative frequency graph (ogive) displays the distribution of the lifetime (in hours) of a AA battery.

- Approximately what percent of the batteries will last fewer than 250 hours?
- 2. Approximately what proportion of batteries will last 325 hours or more?
- 3. What battery life would be needed so that the battery was at the 60th percentile?

- 4. What is the median battery life?
- Determine the IQR of the distribution of battery lifetimes.

Lifetimes of AA Batteries (hrs)



Matching Boxplots, Histograms, and Summary Statistics. 工 A S Mean 40.76 Median VIII 38 Standard Deviation 21.171 10 20 30 40 50 60 70 80 90 100 mean = slaw: Mean 68.72 Median 71 Standard Deviation 30.019 <u>Mean</u> ean. .32 52.32 dian Median 53 Deviation 000000000000000 Standard Deviation 163 38.297 10 70 30 40 50 60 70 80 90 100 10 20 30 40 50 60 70 80 90 100 10 20 30 40 50 60 70 80 90 100 Mean

MC Flash Cards