Statistics Assignment 2

# How can we figure out what the interquartile range is?

Interquartile range is the volume of data between the 1st quartile and the 3rd quartile. It contains the middle 50% of the data when the data is ordered from lowest to highest. The interquartile range contains 50% of the data that is centered around the median.

# What exactly is the value of the 5-number theory?

# What is the relationship between standard deviation and variance?

Both are measures of dispersion. Both measures describe the spread of the data from the mean. Standard deviation is the square root of the variance.

# What does the difference between variance and standard deviation mean?

While standard deviation is the square root of the variance, variance is the squared average of all deviations from the mean.

Variance gives you the spread of the data from the mean - it represents how dispersed the data is from the mean. However standard distribution tells you how far away each data point is from the mean.

# When is it appropriate to refer to a skewed data distribution?