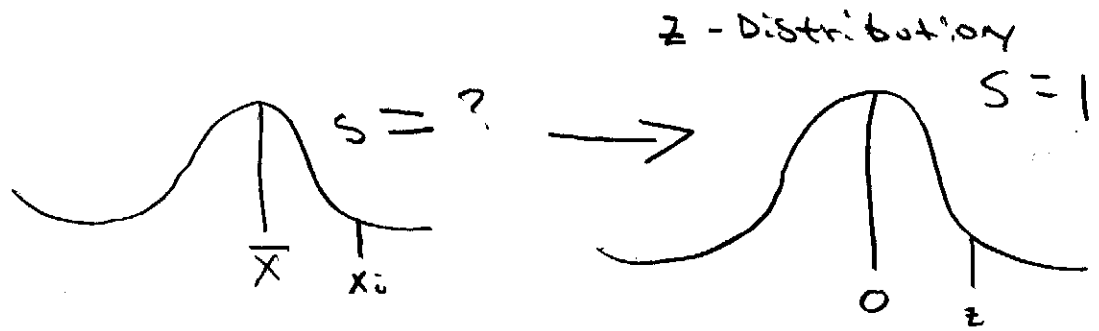


Lecture 8



What is a Standard?

What is the standard measure of central tendency?

What is the standard measure of dispersion?

Z-score (standard score), a score expressed standard deviations units. The standard score is the commonly accepted way of measuring individual score relative to group. It can be used to compare the relative standing of scores in two different distributions.

If every score in a distribution of X has the mean of that distribution subtracted from it and this result is divided by the standard deviation of that distribution, the new distribution of standard scores will have a mean of 0 and standard deviation of 1.

$$Z = \frac{X_i - \bar{X}}{S} \quad \sum Z = 0 \quad \bar{Z} = 0 \quad \sigma_z = 1 \quad \sum Z^2 = N$$

Let's Prove:

1

3

4

7

10