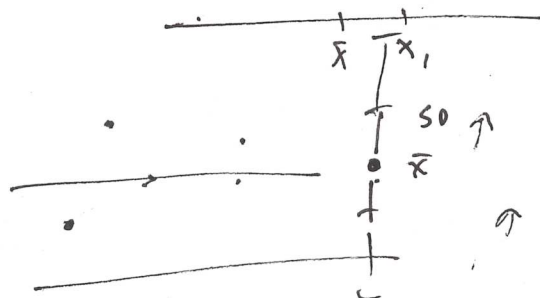


Variance and Sp

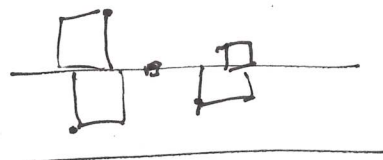
$$\sigma^2 = \frac{1}{n-1} \sum (x_i - \bar{x})^2$$

$$\sigma^2 = \frac{1}{n} \sum (x_i - \bar{x})^2$$

- Average squared distance from mean.



It's inches
so less the
bar.



$$\sigma^2 = \frac{\square + \square + \square + \square + \square}{5}$$

$$\Rightarrow \sigma = \sqrt{\square} = \text{--- length.}$$

This gives me a sense of how much spread there is about the center.

However, it is also going to be very useful as a metric ↗ in practice.

↗ - is there anything else I can use besides \bar{x} ?

↘ - If I use "blah", how much uncertainty is left?

- Will be useful in determining association.

- Based on how much spread I see, is "blah" considered "far away"?

- Am I using the wrong center?

Possibly show histogram of large and small standard deviations w/ same mean to see what we are talking about.