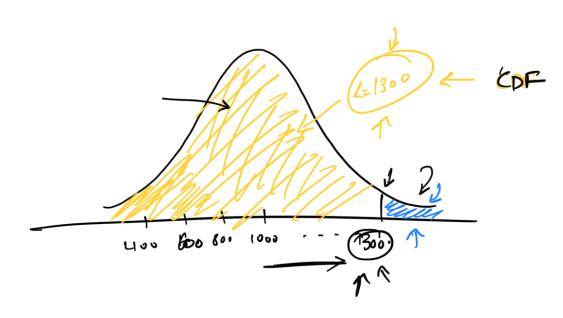
Central Limit Theorem

$$1000$$
 tookposts $\longrightarrow M = 1000$

→ Stock = (300 to x)

What fraction (prob.) of weeks we will go out of stock?



$$(Z) = \frac{N - M}{V} = \frac{1300 - 1000}{200} = \frac{30}{200}$$



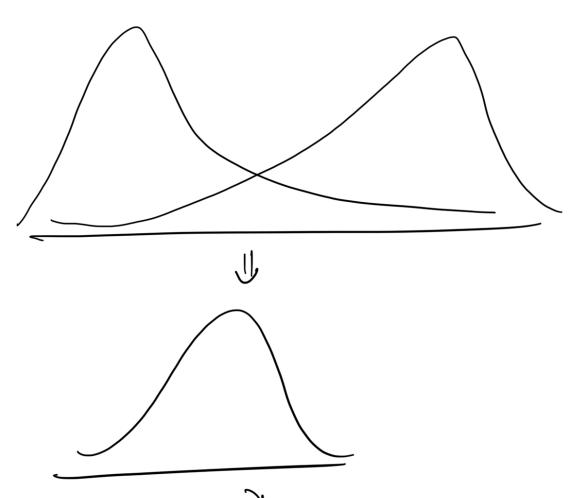
> Population Logical Approach Coften -> How do you ensure that the sampler that you've picked represent the entire field. What if you just pick the 30 heaviest or 30 lights + ? Coural Limit Theorem

r -> 91 now take a bunch of samples (like groups

of 30 or 40 pumpkins) and calculate the average weight for each sample, then the distribution of these sample averages
will be normal even if the original weights
of all pumpling are not distributed normally Sample average wt. Boots trapping

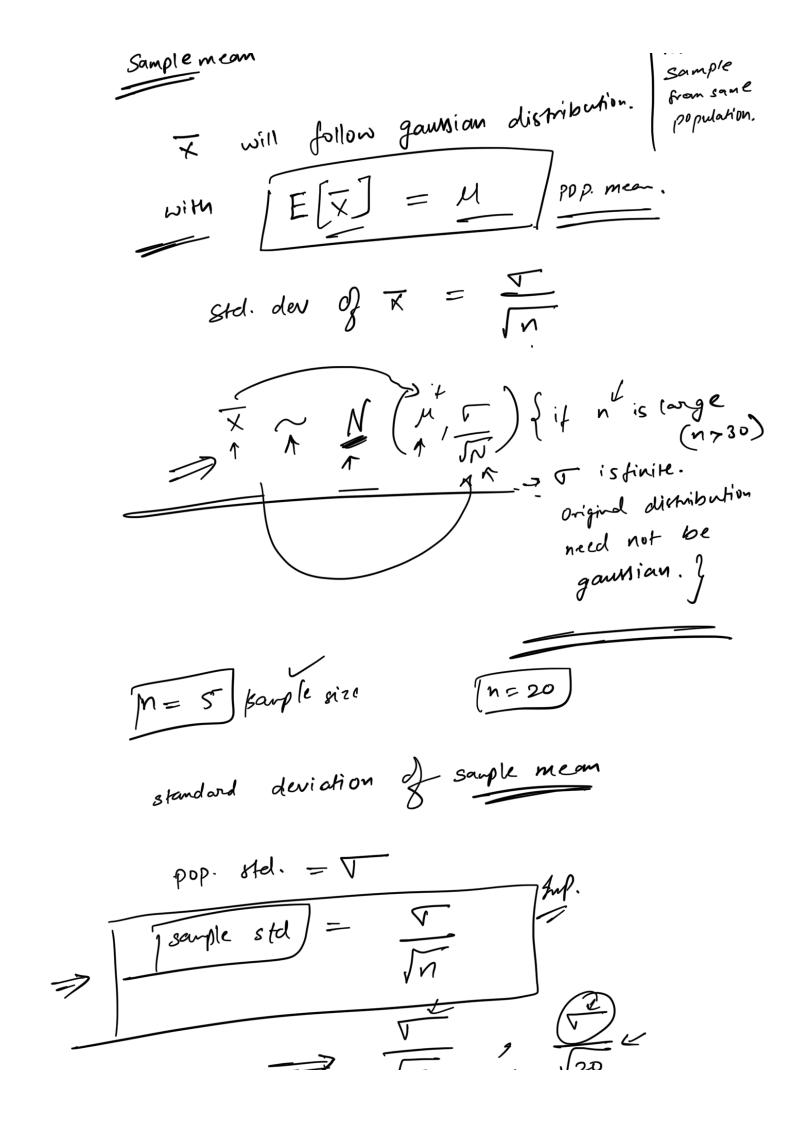
Sample size > 5

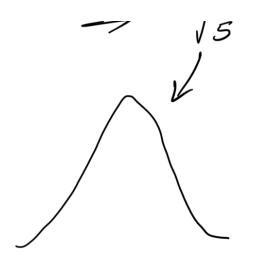
of samples > 1000

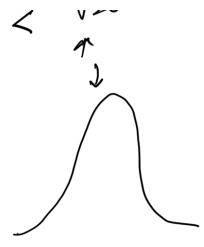


Population -> (4) -> Pop. ang.

 $=\frac{1}{1+n_1+n_3+\dots+n_n}$







00:

$$\overline{\chi} = 12^{2}$$

$$\overline{\chi} = 10$$

$$std(n) = \frac{10}{\sqrt{16}} = \frac{10}{4} = \frac{2.5}{4}$$

$$\frac{125 - 122}{2.5} = 1.2$$