

* Central Limit Theorem

TERMS	PEOPLE
HIGHLIGHTED	IN POINTS OF SIGNIFICANCE

Roman letters = sample statistic ←
Greek " " = population parameters,

Standard deviation — measure of spread
Variance = s^2
IQR — spread
standard error

Mean

Standard error

→ confidence intervals

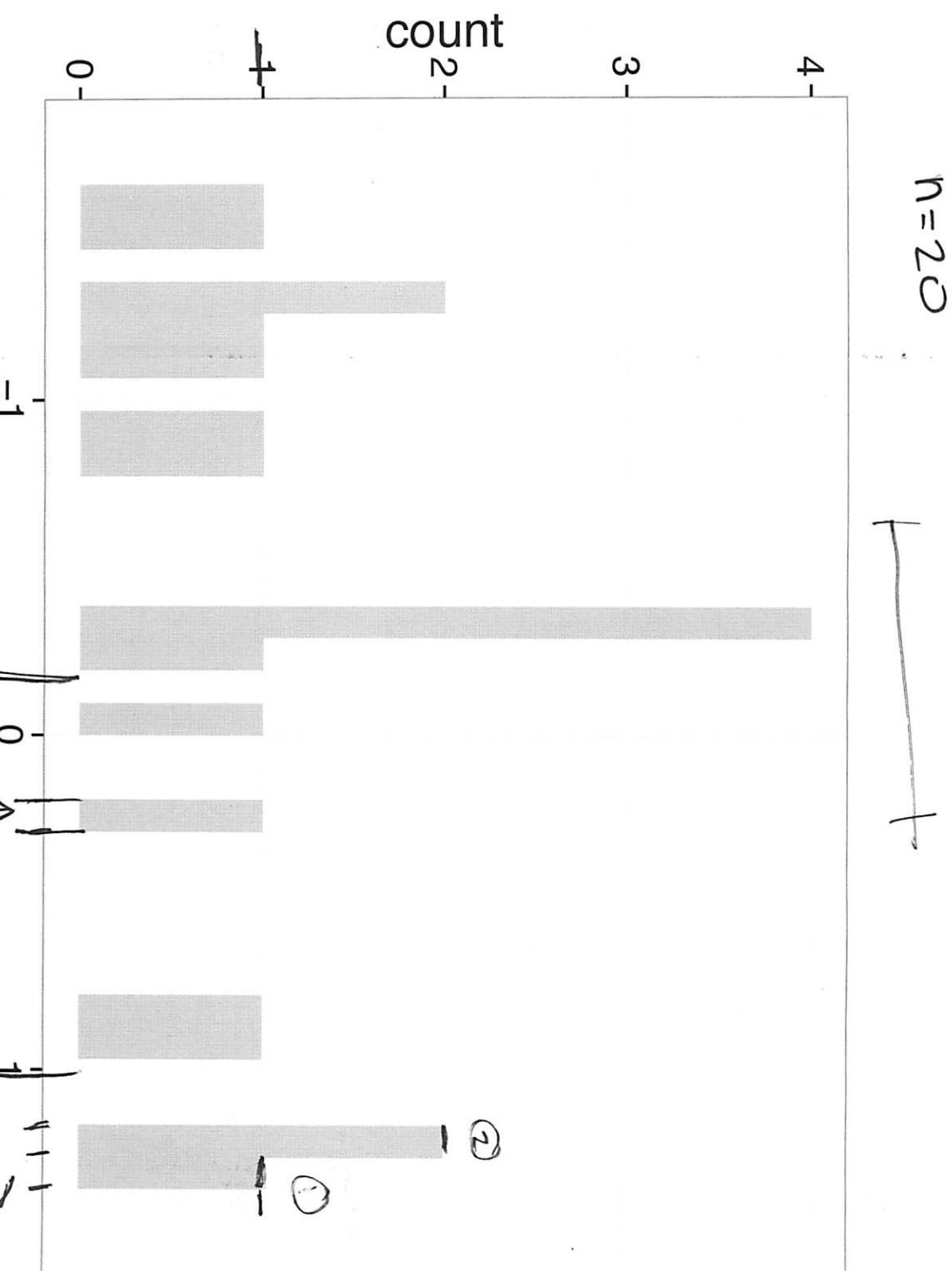
+ 39-68-95-99.7%

* Normal Distribution

\sqrt{n} precision is sample mean
w.r.t sample size

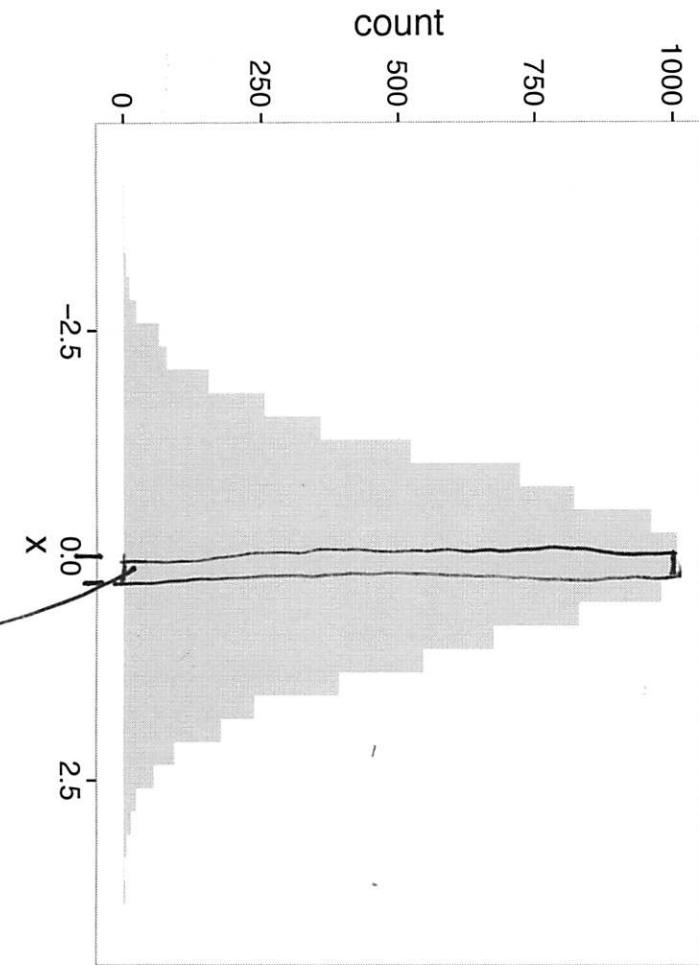
Descriptive & Inferential

- * Sampling Distribution of a statistic
① Sample Distribution → sample mean "
② Sample Distribution of the sample
③ Population distribution



$$1+2=3$$

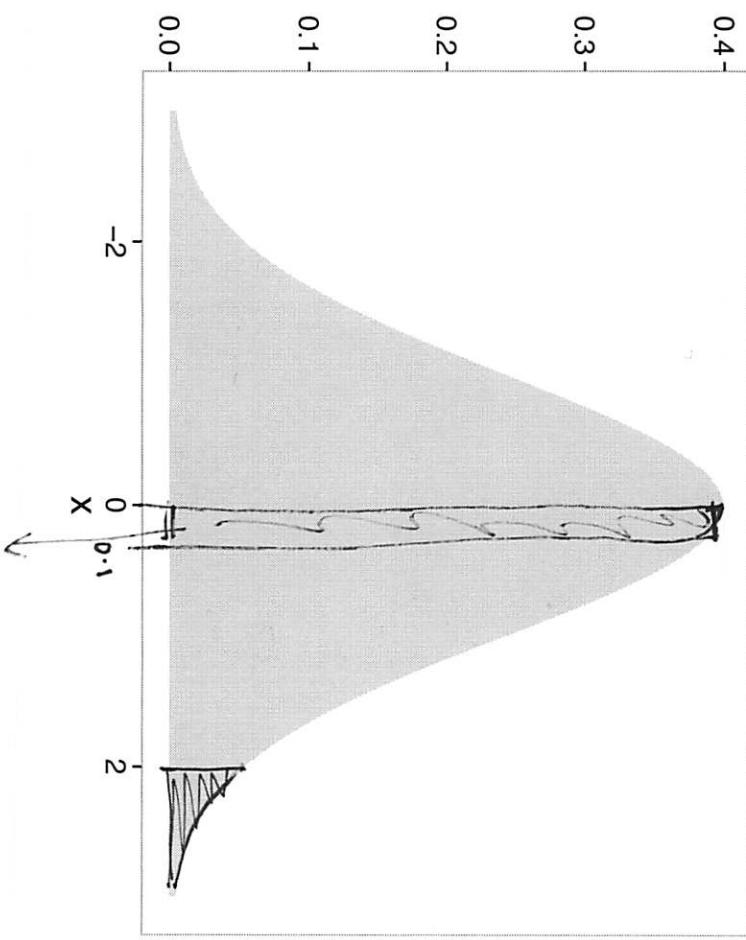
\downarrow
 $N = 10,000$ drawn from a
Normal Distribution



area
is # obs
between 0.0 and 0.1

\downarrow

probability distributions
Normal Distribution



area
is probability an
obs is between 0.0
and 0.1