

Sampling Distributions

Distribution of Random Samples

4.2

quantitative data
average

$$\bar{X} \sim N\left(\mu, \frac{\sigma}{\sqrt{n}}\right)$$

Math 244

Confidence Intervals
for μ

Hypothesis testing
for μ

open Intro
4.5

categorical
yes/no

sample
proportion, \hat{p}

$$\hat{p} \sim N\left(p, \sqrt{\frac{pq}{n}}\right)$$

$\frac{13}{100}$ say yes

open Intro
5.1-5.2, 6.1

Confidence Intervals
for p

5.3, 5.4, 6.1

Hypothesis testing
for p