

AP Statistics

Unit 9: Inference using Proportions

Chapters 19-22

Video
Errors



<http://bit.ly/2jHtAlg>

Video—Confidence

Intervals



<http://bit.ly/2jAHSj6>

Video—Hypothesis
Testing



<http://bit.ly/2l0h4Vl>

Video—2 Proportion
Inference



<http://bit.ly/2jARDxr>

Video—Calculating
Sample Size



<http://bit.ly/2kWOASr>

4	5 19.1 Globe Lab HW: Chapter 19 Notes	6	7 19.2 How to...1 Proportion Confidence Intervals HW: p 456 (13, 14)	NO SCHOOL Teacher In- Service Day
11 19.3 More w/ CI HW: p 456 (15-18)	12 20.1 How to...1 Prop Hyp Test HW: Chapter 20 Notes	13	14 20.2 More with Hypothesis Tests HW: p 478 (19-22)	15 NO SCHOOL Teacher In- Service Day
18 NO SCHOOL Presidents' Day	19 21.1 α , β , and errors HW: p499 (5-8)	20	21 21.2 Review, Recap & Quiz HW: p524 (5, 9, 10)	22 22.1 Tic-Tac Lab HW: Chapter 22 Notes
25 22.2 How to...2 prop Tests HW: p520 (17,18)	26 22.3 How to...2 prop CI HW: p 521 (19,20)	27	28 22.4 Practice HW: p 521 (23-26)	1 22.5 Review Day One HW: p525 (12-15)
4 22.6 Review Day Two HW: Gather all homework	5 MC Test	6	7 FR Test	8 Go over Unit 9 Tests

My Decision	The Truth	
	H_0 True	H_0 False
Reject H_0	Type I error α	Correct $1-\beta$
Fail to Reject H_0	Correct $1-\alpha$	Type II Error β

Statistic	Standard Deviation
Sample Proportion	$\sqrt{\frac{p(1-p)}{n}}$

Two-Sample

Statistic	Standard Deviation
Difference of sample proportions	$\sqrt{\frac{p_1(1-p_1)}{n_1} + \frac{p_2(1-p_2)}{n_2}}$

Special case when $p_1 = p_2$

$$\sqrt{p(1-p)} \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}$$

The Six Most Confusing Words in Statistics

failed to reject the null hypothesis

TRIPLE NEGATIVE!
my brain hurts!



