2022-2023 AP Statistics Assigments

(see web site for reading guides, glossaries of important terms, notes, HW answers, and other goodies)

Chapter	Day	Topics	Objectives: Students will be able to…	Homework	Reading	7/8B
8	0	8.1 Understanding Confidence Intervas and Confidence Levels: Constructing, Interpreting, and Conditions **Garfield Video (10min)** https://drive.google.com/file/d/0B5GJz7h-lQ-CaVpWcXFiVkFfQ0U/view	• Interpret a confidence level in context. • Interpret a confidence interval in context. • Understand that a CI gives a range of plausible values for the parameter. • Understand the 3 inference conditions for CI's (1)**R**andom; (2)**N**ormal;(3)**I**ndependence • Explain how issues like nonresponse, undercoverage,& response bias can affect the interpretation of a CI	1) Read Section 8.1 2) Complete 8.1 Guided Notes 3) Watch Garfield Video Link on my website https://drive.google.com/file/d/1eKDtYUt7eN0zaVeBcqwXVkBGNdc9b2Km/view?usp=sharing		14-Feb
8	1	8.2 Conditions for Estimating *p*, Constructing a Confidence Interval for *p* ***Activity 1: 8.1 Mystery Mean - CI Basics*** ***Activity 2: Finish 8.1 Notes***	• Construct and interpret a CI for a population p. • Do ALL steps to constructing a CI for a population proportion: define parameter; check conditions; perform calculations; interpret results in context.	**Re-watch Garfield Video**	Section 8.2 & Complete 8.2 Guided Notes	16-Feb
February Vacation (Feb. 20-24)						
		SKIP ACTIVITY SAVE TIME - 8.2 Activity - Magic Bean Contest				
8	2	8.2 Putting It All Together: Construct a Confidence interval for p; Choosing the Sample Size **8.2 Activity - Understanding Confidence Intervals for p (tbd problems pg491 and pg493)**	• Determine critical values for calculating a confidence interval using a table or your calculator. • Determine the sample size required to obtain a level *C* confidence interval for a population proportion with a specified margin of error. • Understand how the ME of a CI changes with the sample size and the level of confidence *C*. • Understand the 3 inference conditions—R, N, & I	1, 5, 15, ~~(me)21-24~~ 27-31, 33, ~~36, 38,~~ 41, 44 ~~(me) 49-52~~		27-Feb
SNOW DAY - FEB28						
8	3	8.3 Introduction to Mean CI and find sample size *Dropped topic 1-Sample z-Interval for μ* **• 8.3a Intro to CIs for μ and find sample size for means** **• NEW 8.3 Day 1 StatMedic - Oreo example** •DELETED Activity: 8.3 Letters per Word	~~• Dropped topic 1-Sample z-Interval for μ (Construct and interpret a confidence interval for a μ when σ is known)~~ • Determine the sample size required to obtain a level *C* CI for a population mean with a specified ME · Dropped topic- construct and interpret a CI for a μ when **σ is known**	Complete both handouts	Section 8.3 & complete 8.3 Guided Notes	1-Mar
Friday, Mar3 Winter Carnival -50min classes						
8	4	8.3 Constructing a Confidence Interval for μ when σ is Unknown: The t Distributions, **•Classwork: 8.3b Activity - t-distribution & CI for μ**	• Carry out the steps in constructing a CI for a μ when **σ is NOT known** • Understand the 3 inference conditions—R, N, & I	56, 57, 60, 63, 67, 73, ~~(me) 75-78~~		3-Mar
8	5	**~~CH 8 Wrap-Up~~** **cw: Chapter 8 Practice Quiz**		**Ch.8 AP Practice Test AND Ch.8 Frappy's**		**6-Mar**
FRAPPY's (2018Bq2, 2013q2, 2013q1) due day of Chapter 8 Quiz - 3HW grades - must grade, correct, & Read Chief Reader Report						
8	**X**	**NO Chapter 8 Test**	**~~12MC(2 free)-50pts; 3 FRQs-50pts)~~**	**Cumulative Chapter 8-10 Test (2x)**		
8	**6**	**Ch8 Free Response Quiz - 3-5 questions - no test corrections apply**		**Start Ch9**		**8-Mar**