AP Statistics Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Chapter 8 Homework Assignments Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour\_\_\_\_

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| Lesson | Topics | Homework Assignment | Homework Credit |
| Lesson 8.1  Confidence Intervals: The Basics | - Identify an appropriate point estimator & calculate the value of a point estimate  - Interpret a confidence interval in context  -Determine the point estimate and margin of error from a confidence interval  -Use a confidence interval to make a decision about the value of a parameter | Lesson 8.1 Worksheet (Problems on this worksheet will be for Day 1 & Day 2)  For Day 1:  Problems 1, 2, 3 a-c, 6, a,b,d,e, |  |
| Lesson 8.1  Confidence Intervals: The Basics | - Interpret a confidence level in context  - Describe how the sample size and confidence level affect this margin of error  - Explain how practical issues like nonresponse, undercoverage, and response bias can affect the interpretation of a confidence interval. | Lesson 8.1 Worksheet  Finish the worksheet |
| Lesson 8.2 Estimating a Population Proportion | - State and check the Random, 10%, and Large Counts conditions for constructing a confidence interval for a population proportion.  - Determine the critical value for calculating a C% confidence interval for a population proportion using a table or technology.  - Construct and interpret a confidence interval for a population proportion. | HW 8.2 Part A page 496 problems 27- 29, 31, 33 |  |
| Lesson 8.2 Estimating a Population Proportion | - Construct and interpret a confidence interval for a population proportion.  - Determine the sample size required to obtain a C% confidence interval for a population proportion with a specified margin of error | HW 8.2 Part B pages 496-497 problems 35, 36, 37, 41, 43, 47    Do Problems 35 & 36 on the template |  |
| Lesson 8.3  Estimating a Population Mean | - Determine the critical value for calculating a C% confidence interval for a population mean using a table or technology.  - State and check the Random, 10%, and Normal/ Large Sample conditions for constructing a confidence interval for a population mean.  -Construct and interpret a confidence interval for a population mean. | HW 8.3 Part A  Pages 518 – 519 problems 57,59, 65 |  |
| Lesson 8.3  Estimating a Population Mean | - Construct and interpret a confidence interval for a population mean.  - Determine the sample size required to obtain a C% confidence interval for a population mean with a specified margin of error. | HW 8.3 Part B  Pages 518 – 521  Problems 55, 56, 63, 67, 71, 73, 75 - 78 |  |