Lesson 10.2 Practice: Estimating a Population Proportion

School Launch · Statistics · Unit 10: Confidence Intervals · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. In a sample of 705, 291 said yes. Construct a 95% confidence interval for p (three decimals). EASY

2. In a sample of 1434, 584 said yes. Construct a 95% confidence interval for p (three decimals). EASY

3. In a sample of 987, 399 said yes. Construct a 95% confidence interval for p (three decimals). EASY

4. In a sample of 130, 76 said yes. Construct a 95% confidence interval for p (three decimals). MEDIUM

5. In a sample of 104, 62 said yes. Construct a 95% confidence interval for p (three decimals). MEDIUM

6. In a sample of 486, 367 said yes. Construct a 90% confidence interval for p (three decimals). MEDIUM

7. In a sample of 656, 295 said yes. Construct a 99% confidence interval for p (three decimals). MEDIUM

8. In a sample of 654, 291 said yes. Construct a 95% confidence interval for p (three decimals). HARD

9. In a sample of 252, 140 said yes. Construct a 90% confidence interval for p (three decimals). HARD

10. In a sample of 885, 454 said yes. Construct a 95% confidence interval for p (three decimals). HARD