Lesson 10.3 Practice: The t Distributions

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. Find the critical value t^* for a 99% confidence interval with 30 degrees of freedom (three decimals). EASY

2. Find the critical value t^* for a 90% confidence interval with 15 degrees of freedom (three decimals). EASY

3. Find the critical value t^* for a 90% confidence interval with 30 degrees of freedom (three decimals). EASY

4. Find the critical value t^* for a 90% confidence interval with 20 degrees of freedom (three decimals). MEDIUM

5. Find the critical value t^* for a 99% confidence interval with 10 degrees of freedom (three decimals). MEDIUM

6. Find the critical value t^* for a 95% confidence interval with 15 degrees of freedom (three decimals). MEDIUM

7. Find the critical value t^* for a 95% confidence interval with 10 degrees of freedom (three decimals). MEDIUM

8. Find the critical value t^* for a 99% confidence interval with 20 degrees of freedom (three decimals). HARD

9. Find the critical value t^* for a 95% confidence interval with 30 degrees of freedom (three decimals). HARD

10. Find the critical value t^* for a 95% confidence interval with 5 degrees of freedom (three decimals). HARD