Lesson 11.5 Practice: Tests and Intervals Together

School Launch · Statistics · Unit 11: Significance Tests · 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. A 95% CI for μ is $(16.1, 24.3)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 20.2$? EASY

2. A 95% CI for μ is $(29.0, 33.7)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 28.0$? EASY

3. A 95% CI for μ is $(37.7, 46.8)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 47.8$? EASY

4. A 95% CI for μ is $(27.9, 32.8)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 26.9$? MEDIUM

5. A 95% CI for μ is $(34.9, 37.4)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 33.9$? MEDIUM

6. A 95% CI for μ is $(30.0, 33.8)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 31.9$? MEDIUM

7. A 95% CI for μ is $(11.7, 21.4)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 10.7$? MEDIUM

8. A 95% CI for μ is $(33.6, 39.0)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 40.0$? HARD

9. A 95% CI for μ is $(13.3, 19.4)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 20.4$? HARD

10. A 95% CI for μ is $(20.1, 26.7)$. At $\alpha = 0.05$, would a two-sided test reject $H_0 : \mu = 19.1$? HARD