Lesson 11.1 Practice: The Logic of Significance Tests

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 test gives P-value 0.029 at significance level $\alpha = 0.1$. Do we reject H_0? EASY

2. A test gives P-value 0.029 at significance level $\alpha = 0.05$. Do we reject H_0? EASY

3. A test gives P-value 0.033 at significance level $\alpha = 0.05$. Do we reject H_0? EASY

4. A test gives P-value 0.096 at significance level $\alpha = 0.01$. Do we reject H_0? MEDIUM

5. A test gives P-value 0.092 at significance level $\alpha = 0.1$. Do we reject H_0? MEDIUM

6. A test gives P-value 0.198 at significance level $\alpha = 0.1$. Do we reject H_0? MEDIUM

7. A test gives P-value 0.083 at significance level $\alpha = 0.05$. Do we reject H_0? MEDIUM

8. A test gives P-value 0.117 at significance level $\alpha = 0.01$. Do we reject H_0? HARD

9. A test gives P-value 0.194 at significance level $\alpha = 0.1$. Do we reject H_0? HARD

10. A test gives P-value 0.183 at significance level $\alpha = 0.01$. Do we reject H_0? HARD