Attendance Quiz 16

Name: ____________________________________________ Date: ______________________

1. (Testing a claim about a Mean: \( \sigma \) not known.) Assume that a simple random sample has been selected from a normally distributed population and test the given claim. Test the given claim. Identify the null hypotheses, alternative hypothesis, test statistic, P-value, critical value(s), conclusion about the null hypothesis, and final conclusion for the original claim. Try both ways the P-valued method and traditional method.

Data Set 14 in Appendix B lists measured reading levels for 12 pages randomly selected from J. K. Rowling's *Harry Potter and the Sorcerer's Stone*. The Flesch-Kincaid Grade Level measurements are summarized with these statistics: 

\[ n = 12, \ \bar{x} = 5.075, \ s=1.168 \]  . Use a 0.05 significance level to test the claim that the reading level for a typical page can be shown to be above grade 4.