

## STAT 110: Practice Problem 20

Fall 2017

Consider the data found in the file **LowBirth.JMP**.

Research Question: Is there evidence that the mean birth weight is lower for those children born to women who have uterine irritation?

a. Check and comment on the assumptions for this test.

b. Carry out a hypothesis test for our research question.

<b>Step 1:</b>	Write null and alternative hypothesis.
<b>Step 2:</b>	Find the test statistic.
<b>Step 3:</b>	Determine p-value.
<b>Step 4:</b>	Write a conclusion in terms of the original research question.

c. Obtain the appropriate 95% confidence interval for this problem.

d. Interpret the meaning of this 95% confidence interval in a way that a non-statistician would understand.