Week 3 Lab

7/11 points earned (63%)

You haven't passed yet. You need at least 80% to pass. Review the material and try again! You have 3 attempts every 8 hours.

Back to Week 3

1 / 1 points

1.
How many of the 13 variables are categorical?

- 5
- 6
- 7

Correct

- 8

0 / 1 points

2.
Which of the following best describes the distribution of **weight**?

- Left skewed
- Right skewed

This should not be selected

- Uniformly distributed
- Normally distributed

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1 / 1 points

3.
Which of the following corresponds to the 99% credible interval for the average birth weight of all children born in North Carolina?

- (7.00 , 7.19)
- (6.98 , 7.22)

Correct

- (6.94 , 7.26)
- (6.94 , 7.27)

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1 / 1 points

4.
Based of Jeffrey's scale for interpretation of a Bayes factor how should we describe the evidence in favor of H_1 from the results above?

- Not worth a bare mention
- Positive

Correct

- Strong
- Very Strong

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1 / 1 points

5.
Which of the following is **false** about the relationship between habit and weight?

- Median birth weight of babies born to non-smoker mothers is slightly higher than that of babies born to smoker mothers.
- Range of birth weights of babies born to non-smoker mothers is greater than that of babies born to smoker mothers.
- Both distributions are extremely right skewed.

Correct

- The IQRs of the distributions are roughly equal.

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1 / 1 points

6.
Based on the credible interval is there evidence that smoking reduces birth weight?

- Yes

Correct

- No

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1 / 1 points

7.
Based on the Bayes factor calculated above, how strong is evidence against H_1?

- Not worth a bare mention

Correct

- Positive
- Strong
- Very Strong

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0 / 1 points

8.
How would the Bayes factor above change if we were to increase the prior probability of H_2?

- Get bigger

This should not be selected

- Get smaller
- Stay the same

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0 / 1 points

9.
How would the Bayes factor above change if we were to change the prior of p to be $Beta(75, 925)$?

- Get bigger

This should not be selected

- Get smaller
- Stay the same

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1 / 1 points

10.

These data provide _____ evidence _____ smoking affecting the chance of low birth weight.

- weak; for
- strong; for
- weak; against

Correct

- strong; againt

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0 / 1 points

11.
These data provide _____ evidence _____ smoking affecting the chance of premature birth.

- weak; for
- strong; for
- weak; against
- strong; againt

This should not be selected
