

1
point

1.

How many of the 13 variables are categorical?

- ☐ 5
 - ☐ 6
 - ☐ 7
 - ☐ 8
-

1
point

2.

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

- ☐ Left skewed
 - ☐ Right skewed
 - ☐ Uniformly distributed
 - ☐ Normally distributed
-

1
point

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

1
point

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
 - ☐ Strong
 - ☐ Very Strong
-

1
point

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.

☐ The IQRs of the distributions are roughly equal.

1
point

6.

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

☐ Yes

☐ No

1
point

7.

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

☐ Not worth a bare mention

☐ Positive

☐ Strong

☐ Very Strong

1
point

8.

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

☐ Get bigger

☐ Get smaller

☐ Stay the same

1
point

9.

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

- ☐ Get bigger
- ☐ Get smaller
- ☐ Stay the same
-

Week 3 Lab

Quiz, 11 questions

1
point

10.

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

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

1
point

11.

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

- ☐ weak; for

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

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