

✓ **Congratulations! You passed!**

Next Item



1 / 1
points

1. How many of the 13 variables are categorical?

☐ 5

☐ 6

☒ 7

Correct

☐ 8



1 / 1
points

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

☒ Left skewed

Correct

☐ Right skewed

☐ Uniformly distributed

☐ Normally distributed



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)



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



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.

Week 3 Lab

9/11 points (81.81%)

Quiz, 11 questions



1 / 1
points

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

☒ Yes

Correct

☐ No



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

1 / 1
points

☒ Not worth a bare mention

Correct

☐ Positive

☐ Strong

☐ Very Strong



1 / 1
points

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

Correct



1 / 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
- ☒ Get smaller

Correct

- ☐ Stay the same



0 / 1
points

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

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

This should not be selected



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

0 / 1
points

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

This should not be selected

