

✓ **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

Week 3 Lab

9/11 points (81%)

Quiz, 11 questions



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

Week 3 Lab

Quiz, 11 questions

5.

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

9/11 points (81%)

- ☐ 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.



1 / 1
points

6.

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

- ☒ Yes

Correct

- ☐ No



1 / 1
points

7.

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

- ☒ Not worth a bare mention

Correct

Week 3 Lab

Quiz, 11 questions

- ☐ Positive
 - ☐ Strong
 - ☐ Very Strong
-

9/11 points (81%)



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

Week 3 Lab

Quiz, 11 questions

10.

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

9/11 points (81%)

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



This should not be selected



0 / 1
points

11.

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

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



This should not be selected

