Week 4 Lab

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9/9 points earned (100%)

Quiz passed!



1/1 points

1.

Is this an observational study or an experiment?



Observational study

Correct

Experiment



1/1 points

2.

Which of the following statements is **false** about the distribution of wage?

- The median of the distribution is 905.
- 25% of respondents make more than 1160 dollars per week.
- 7 of the respondents make less than 300 dollars per week.

Correct



O	wage is right-skewed, meaning that more respondents fall below the mean wage than above it.
~	1 / 1 points
	ne the residuals of m_wage_iq. Is the assumption of normally uted errors valid?
0	Yes, since the distribution of the dependent variable (wage) is roughly normally distributed.
0	Yes, since the distribution of the residuals of the model looks approximately normal.
0	No, since the distribution of the residuals of the model is left- skewed.
0	No, since the distribution of the residuals of the model is right- skewed.
Corr	ect
~	1 / 1 points
	the reference prior $p(\alpha,\beta,\sigma^2)\propto 1/\sigma^2$, give a 95% posterior credible al for β , the coefficient of IQ.
0	(0.00793, 0.00967)
0	(0.00709, 0.01050)
Corr	ect
0	(0.00663, 0.01098)
0	(0.00010, 0.01750)

/	1 / 1 points	
	the model, all else begin equal, who would you expect to make more: and black man or a single non-black man?	
0	The married black man	
Correct		
0	The single non-black man	
~	1 / 1 points	
6. Elimin	ation of which variable from the full model yielded the lowest BIC?	
0	brthord	
0	sibs	
0	feduc	
Correct		
0	meduc	
~	1 / 1 points	

7.

Based on this reduced data set, according to Bayesian model averaging, which of the following variables has the lowest marginal posterior inclusion probability?



