

✓ Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

grade 100%

Week 3 Python Assessment

LATEST SUBMISSION GRADE 100%		
1.	What is clustered data? Clustered data is when there are observations that are the exact same in a dataset. Data is considered clustered when our dataset features have a low variance. Clustered data is when one group in a dataset is over-represented. Data is considered clustered when observations are correlated within groups, sometimes related to study designs.	1/1 point
2.	Which of the following features has the highest correlation between two observations in the same cluster? BPXSY1 SDMVSTRA RIDAGEYR BMXBMI Smq	1/1 point
3.	 ✓ Correct What is true about multiple linear regression and marginal linear models when dependence is present in data? ○ The standard error in multiple linear regression and marginal linear models tends to be the same. ○ A multiple linear regression model is theoretically justified when there is dependence in the data. ⑥ Marginal linear model estimates and standard errors are meaningful due to the dependence of data, but only when dependence is strictly between observations within the same group. 	1/1 point
4.	 The standard error in multiple linear regression tends to be higher than in marginal linear models. ✓ correct Multilevel models are expressed in terms of Mixed effects Correlation coefficients Random effects Fixed effects 	1/1 point
5.	 ✓ Correct Which of the following is NOT true regarding reasons why we fit marginal models? Quicker computational times; faster estimation Robust standard errors that reflect the specified correlation structure Easier accommodation of non-normal outcomes All the above are true 	1/1 point
	✓ Correct	