

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  Correct	1/1 point
3.	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.  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.  The standard error in multiple linear regression tends to be higher than in marginal linear models.	1/1 point
4.	Multilevel models are expressed in terms of  Mixed effects  Correlation coefficients  Random effects  Fixed effects	1/1 point
5.	<ul> <li>✓ Correct</li> <li>Which of the following is NOT true regarding reasons why we fit marginal models?</li> <li>Quicker computational times; faster estimation</li> <li>Robust standard errors that reflect the specified correlation structure</li> <li>Easier accommodation of non-normal outcomes</li> <li>All the above are true</li> <li>✓ Correct</li> </ul>	1/1 point