## Congratulations! You passed!

Grade received 100% To pass 66% or higher

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1.	Which of the following is the meaning of "Out of Sample Accuracy" in the context of evaluation of models?	1/1 point
	Out of Sample Accuracy" is the accuracy of a model on all the data available.	
	<ul> <li>"Out of Sample Accuracy" is the accuracy of an overly trained model (which may capture noise and produced a non-generalized model)</li> </ul>	
	<ul> <li>"Out of Sample Accuracy" is the percentage of correct predictions that the model makes on data that the model has NOT been trained on.</li> </ul>	
	Out of Sample Accuracy" is the percentage of correct predictions that the model makes using the test dataset.	
	○ Correct  Correct! Out-of-sample accuracy represents how well the model is able to perform on unknown data.	
2.	When should we use Multiple Linear Regression? (Select two)	1 / 1 point
	When we would like to predict impacts of changes in independent variables on a dependent variable.	
	<ul> <li>Correct         Correct! We hope to understand how the dependent variable change when we change the independent variables.     </li> </ul>	
	When there are multiple dependent variables	
	When we would like to identify the strength of the effect that the independent variables have on a dependent variable.	
	Correct Correct! Multiple linear regression is used for regression tasks involving more than one independent variable.	
	☐ When we would like to examine the relationship between multiple variables.	
3.	Which sentence is TRUE about linear regression?	1 / 1 point
	<ul> <li>Multiple linear regression requires a linear relationship between the predictors and the response, but simple linear regression does not.</li> </ul>	
	O Simple linear regression requires a linear relationship between the predictor and the response, but multiple linear regression does not.	
	A linear relationship is necessary between the independent variables and the dependent variable.	
	<ul> <li>A linear relationship is necessary between the independent and dependent variables as well as in between independent variables.</li> </ul>	
	⊙ Correct Correct! If the relationship is non-linear, then we must use non-linear regression.	