1.	Which of the following statements about model complexity is TRUE?	1 / 1 point
	Higher model complexity leads to a lower chance of overfitting.	
	Higher model complexity leads to a higher chance of overfitting.	
	Reducing the number of features while adding feature interactions leads to a lower chance of overfitting.	
	Reducing the number of features while adding feature interactions leads to a higher chance of overfitting.	
	Correct! You can find more information in the Bias Trade Off lesson.	
2.	Which of the following statements about model errors is TRUE?	1 / 1 point
	Underfitting is characterized by lower errors in both training and test samples.	
	Underfitting is characterized by higher errors in both training and test samples.	
	Underfitting is characterized by higher errors in training samples and lower errors in test samples.	
	Underfitting is characterized by lower errors in training samples and higher errors in test samples.	
	Correct! You can find more information in the Bias Trade Off lesson.	
3.	Which of the following statements about regularization is TRUE?	1 / 1 point
	Regularization always reduces the number of selected features.	
	Regularization increases the likelihood of overfitting relative to training data.	
	Regularization decreases the likelihood of overfitting relative to training data.	
	Regularization performs feature selection without a negative impact in the likelihood of overfitting relative to the training data.	
	Correct	
	Correct! You can find more information in the Regularization Techniques lesson.	
4.	Which of the following statements about scaling features prior to regularization is TRUE?	1 / 1 point
	Feature scaling is not recommented prior to regularization.	
	Features should rarely or never be scaled prior to implementing regularization.	
	The larger a feature's scale, the more likely its estimated impact will be influenced by regularization.	
	The smaller a feature's scale, the more likely its estimated impact will be influenced by regularization.	
	Correct! You can find more information in the Regularization Techniques lesson.	

	0000	Lasso Elastic Net None of the above	
		Correct Correct. You can find more information in the Polynomial Features and Regularization Demo.	
6.	Wh	hich of the following statements about Elastic Net regression is TRUE?	1 / 1 point
	•	Elastic Net combines L1 and L2 regularization.	
	0	Elastic Net does not use L1 or L2 regularization.	
	O	Elastic Net uses L2 regularization, as with Ridge regression.	
	0	Elastic Net uses L1 regularization, as with Ridge regression.	
	(	Correct Correct! You can find more information in the Regularization Techniques lesson.	
7.	ВС	OTH Ridge regression and Lasso regression	1 / 1 point
	O	Do not adjust the cost function used to estimate a model.	
	<ul><li>O</li></ul>	Add a term to the loss function proportional to a regularization parameter.  Add a term to the loss function proportional to the square of parameter coefficients.	
	$\mathcal{O}$	Add a term to the loss function proportional to the absolute value of parameter coefficients.	
	$\cup$	,	
	(	Correct Correct! You can find more information in the Regularization Techniques lessons.	
8.	Со	ompared with Lasso regression (assuming similar implementation), Ridge regression is:	1 / 1 point
	0	Less likely to overfit to training data.	
	Ŏ	More likely to overfit to training data.	
		Less likely to set feature coefficients to zero.	
	0	More likely to set feature coefficients to zero.	
	(	Correct Correct! You can find more information in the Regularization Techniques lessons.	
9.	Wh	hich of the following about Ridge Regularization is TRUE?	1 / 1 point
	0	It enforces the coefficients to be lower, but not 0	
	0	It minimizes irrelevant features	
	$\bigcirc$	It penalizes the size magnitude of the regression coefficients by adding a squared term	

10.	Whixh of the below statements are correct?	1 / 1 point
	Neither RidgeCV nor LassoCV use L1 regularization function.  Both RidgeCV and LassoCV use L1 regularization function.  Only RidgeCV use L1 regularization function.  Only LassoCV use L1 regularization function.	
	<ul> <li>Correct</li> <li>Correct! You can find more information in the Polynomial Features and Regularization Demo.</li> </ul>	

Orrect! Incorrect! For more information review the Ridge Regression lesson.

All of the above