1.	The main purpose of splitting your data into a training and test sets is:	1/1 point
	O To improve accuracy	
	To avoid overfitting	
	O To improve regularization	
	To improve crossvalidation and overfitting	
	 Correct Correct! You can find more information in the Training and Test Splits lessons. 	
2.	Complete the following sentence: The training data is used to fit the model, while the test data is used to:	1/1 point
	measure the parameters and hyperparameters of the model	
	tweak the model hyperparameters	
	tweak the model parameters	
	measure error and performance of the model	
	 Correct Correct! You can find more information in the Training and Test Splits lessons. 	
3.	What term is used if your test data leaks into the training data?	1/1 point
	○ Test leakage	
	Training leakage	
	Data leakage	
	Historical data leakage	
	Correct! Data leakage is when your test data leaks into the training data	
4	Which one of the below terms <i>use</i> a linear combination of features?	1/1 maint
4.		1/1 point
	Binomial Regression	
	Linear Regression	
	Multiple Regression	
	O Polynomial Regression	
	 Correct Correct! Linear regression is the linear combinations of features. For more information please review the Polynomial Regression lesson. 	
5.	When splitting your data, what is the purpose of the training data?	1/1 point
	Compare with the actual value	•
	Fit the actual model and learn the parameters	
	Predict the label with the model	
	Measure errors	
	Correct! The training data is used to fit the actual model and learn the parameters	

6.	Polynomial features capture what effects?	1/1 point
	Non-linear effects.	
	C Linear effects.	
	Multiple effects.	
	Regression effects.	
	 Correct Correct. You can find more information in the polynomial regression lesson. 	
7.	Which fundamental problems are being solved by adding non-linear patterns, such as polynomial features, to a standard linear approach?	1/1 point
	O Prediction.	
	O Interpretation.	
	Prediction and Interpretation.	
	None of the above.	
	 Correct Correct! You can find out more information in the Polynomial Regression Features lesson. 	
8.	A testing data could be also reffered to as:	1/1 point
	○ Training data	
	Unseen data	
	O Corroboration data	
	O None of the above	
	 Correct Correct! You can find more information in the Training and Test Splits lessons. 	
9.	Select the correct syntax to obtain the data split that will result in a train set that is 60% of the size of your available data.	1/1 point
	X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.6)	
	X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.4)	
	<pre>X_train, y_test = train_test_split(X, y, test_size=0.40)</pre>	
	X_train, y_test = train_test_split(X, y, test_size=0.6)	
	Correct Correct! You can find more information in the Training and Test Splits lessons.	
10.	What is the correct sklearn syntax to add a third degree polynomial to your model?	1/1 point
	opolyFeat = polyFeat.add(degree=3)	
	opolyFeat = polyFeat.fit(degree=3)	
	polyFeat = PolynomialFeatures(degree=3)	
	opolyFeat = polyFeat.transform(degree=3)	
	 Correct Correct! You can find more information in the Polynomial Regression lesson. 	