1.	Which scaling approach converts features to standard normal variables?	1 / 1 point
	Standard scaling	
	Nearest neighbor scaling	
	Robust scaling	
	MinMax scaling	
	Correct Correct. Standard scaling converts variables to standard normal variables.	
2.	Which variable transformation should you use for ordinal data?	1 / 1 point
	Min-max scaling	
	One-hot encoding	
	Ordinal encoding	
	Standard scaling	
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	Correct Correct. Use ordinal encoding if there is some order to the categorical features.	
3.	What are polynomial features?	1 / 1 point
	They are logistic regression coefficients.	
	They are higher order relationships in the data.	
	They are represented by linear relationships in the data.	
	They are lower order relationships in the data.	
	 Correct Correct. Polynomial features are estimated by higher order polynomials in a linear model, like squared, cubed, etc. 	
4.	What does Boxcox transformation do?	1 / 1 point
	It makes the data more right skewed.	
	It transforms categorical variables into numerical variables.	
	It transforms the data distribution into more symmetrical bell curve	
	It makes the data more left skewed	
	Correct Correct. Boxcox is one of the ways we can transform our skewed dataset to be more normally distributed.	

	To examine correlations, to sample from dataframes, and to train models on random samples of data To analyze data sets, to determine the main characteristics of data sets, and to use sampling to examine data To determine if the data makes sense, to determine whether further data cleaning is needed, and to help identify patterns and trends in the data Correct Correct Correct EDA helps us analyze data to summarize its main characteristics.	
6.	What assumption does the linear regression model make about data?	1 / 1 point
	This model assumes a transformation of each parameter to a linear relationship. This model assumes a linear relationship between predictor variables and outcome variables. This model assumes an addition of each one of the model parameters multiplied by a coefficient. This model assumes that raw data in data sets is on the same scale. Correct Correct Correct. The linear regression model assumes a linear relationship between predictor and outcome variables.	
7.	What is skewed data? Raw data that has undergone log transformation. Data that has a normal distribution. Raw data that may not have a linear relationship. Data that is distorted away from normal distribution; may be positively or negatively skewed.	1 / 1 point
8.	Correct. Often raw data, both the features and the outcome variable, can be negatively or positively skewed. Select the two primary types of categorical feature encoding. Encoding and scaling Log and polynomial transformation One-hot encoding and ordinal encoding Nominal encoding and ordinal encoding	1 / 1 point
9.	Correct Correct. Encoding that transforms non-numeric values to numeric values is often applied to categorical features. Which scaling approach puts values between zero and one? Nearest neighbor scaling Standard scaling Min-max scaling	1 / 1 point

	Robust scaling	
	 Correct Correct. Min-max scaling converts variables to continuous variables in the (0, 1) interval by mapping minimum values to 0 and maximum values to 1. 	
10.	Which variable transformation should you use for nominal data with multiple different values within the feature?	1 / 1 point
	Ordinal encoding Min-max scaling Standard scaling One-hot encoding	
	Correct Correct. Use one-hot encoding if there are multiple different values within a feature.	