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1.	A data team working for an online magazine uses a regression technique to learn about advertising sales in different sections of the publication. They estimate the linear relationship between one continuous dependent variable and four independent variables. What technique are they using?	1 / 1 point
	Multiple linear regression	
	Coefficient regression	
	Interaction regression	
	Simple linear regression	
2.	What technique turns one categorical variable into several binary variables?	1 / 1 point
	One hat angoding	
	One hot encoding Multiple linear regression	
	Overfitting	
	Adjusted R squared	
	/ Agustica in oqualica	
3.	Fill in the blank: The no multicollinearity assumption states that no twovariables can be highly correlated with each other.	1 / 1 point
	continuous	
	independent	
	categorical	
	dependent	
4.	What term represents how the relationship between two independent variables is associated with changes in the mean of the dependent variable?	1 / 1 point
	Interaction term	
	Coefficient term	

	Selection term	
	Normality term	
5.	Which regression evaluation metric penalizes unnecessary explanatory variables?	1 / 1 point
	Overfitting	
	Holdout sampling	
	Regression sampling Adjusted R squared	
	Adjusted it squared	
6.	Which of the following statements accurately describe forward selection and backward elimination? Select all that apply.	0.5 / 1 point
	Forward selection begins with the full model with all possible independent variables.	
	This should not be selected Review the video about variable selection. □	
	Backward elimination begins with the full model with all possible independent variables.	
	Forward selection begins with the full model and zero independent variables.	
	Forward selection begins with the full model with all possible dependent variables.	
7.	A data professional reviews model predictions for a project involving financial data. During the review, they notice a model that oversimplifies the relationship and underfits the observed data. This generates inaccurate estimates for the company's annual budget. What quality does this model have?	1 / 1 point
	Selection	
	Elimination	
	Bias	
	Variance	

8.	What regularization technique completely removes variables that are less important to predicting the y variable of interest?	1 / 1 point
	Ridge regression Lasso regression Independent regression Elastic net regression	