

## ▲ Try again once you are ready

Grade Latest Submission received 68.75% Grade 68.75%

To pass 80% or higher Try again

1.	What is the difference between observed or actual values and the predicted values of a regression line?	1/1 point
	○ Slope	
	O Beta	
	O Parameter	
	Residual	
	<b>⊘</b> Correct	
2	A data professional minimizes the sum of squared residuals to estimate parameters in a linear regression model.	a la matria
۷۰	What method are they using?	1/1 point
	○ Residual coefficients	
	Mean absolute error	
	R squared	
	Ordinary least squares	
	<b>⊘</b> Correct	
3.	A data professional testing for linear regression assumptions notices that their visualization appears with a downward curve. Which model assumption does this invalidate?	1/1 point
	O Independent observation	
	Normality	
	Linearity	
	O Homoscedasticity	
	<b>⊘</b> Correct	
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4.	Fill in the blank: A scatterplot matrix is a series of scatterplots that show the relationships between pairs of	1/1 point
	variables	
	O models	
	lines	
	Ocoordinates	
	<b>⊘</b> Correct	
_	A data professional at a toy manufacturer checks model assumptions while working on a project about potential	a da motor
٠.	new game concepts. They find no clear pattern in their scatterplot and can confirm constant variance along the	1/1 point
	values of the dependent variable. What does this scenario describe?	
	Onomality	
	Homoscedasticity	
	O Linearity	
	O Independent observation	
	<b>⊘</b> Correct	
6.	Fill in the blank: A confidence band is the area surrounding a line that describes the around the predicted outcome at every value of X.	0 / 1 point
	O uncertainty	
	( certainty	

	○ inaccuracy	
	⊗ Incorrect     Review the video about uncertainty in regression analysis.	
7.	What measures the proportion of variation in the dependent variable Y explained by the independent variable X?	0 / 1 point
	Mean squared error (MSE)	
	O P-value	
	Rsquared	
	Mean absolute error (MAE)	
	<b>⊗ Incorrect</b> Review the video about model evaluation metrics.	
8.	Which of the following statements accurately describe running a randomized, controlled experiment? Select all that apply.	0.5 / 1 point
	☐ To be successful, data professionals must control for every factor in the experiment.	
	It is typically used when arguing for causation between variables.	
	<b>⊘</b> Correct	
	It is a study design that systematically and methodically assigns participants into groups.	
	★ This should not be selected     Review the reading about correlation versus causation.	
	The differences between the control and treatment groups must be observable and measurable.	
	<b>⊘</b> Correct	