

Congratulations! You passed!

Grade Latest Submission received 84.37% Grade 84.38%

To pass 80% or higher

Go to next item

 A data professional determines the best fit line by calculating the difference between observed values and the predicted value of a regression line. What is this calculation? 	1 / 1 point
Residual	
Coefficient	
Notion	
O Parameter	
⊘ Correct	
A data professional minimizes the sum of squared residuals to estimate parameters in a linear regression model. What method are they using?	1/1 point
Mean absolute error	
Ordinary least squares	
Residual coefficients	
R squared	
Cornect	
⊘ Correct	
3. A data professional testing for linear regression assumptions notices that their visualization of the data appears like a random cloud. Which model assumption does this invalidate?	1/1 point
O Independent observation	
Linearity	
O Homoscedasticity	
O Normality	
⊘ Correct	
4. Fill in the blank: A scatterplot matrix is a series of scatterplots that show the between pairs of variables.	1/1 point
discrepancies	
relationships	
variability	
distances	
5. A data analytics professional working for a storage facility checks model assumptions while determining optimal storage space sizes. They notice dependent variables appear in a cone-shaped pattern when plotting the residuals against the dependent variable. Which model assumption does this invalidate?	0 / 1 point
O Homoscedasticity	
Normality	
○ Independent observation	
Linearity	
⊗ Incorrect	
Review the video about linear regression assumptions.	
 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. 	1/1 point
○ accuracy	

	uncertainty	
	Oinaccuracy	
	O certainty	
	⊘ Correct	
7.	A data professional determines how much of the variation in the X variable explains the variation in the Y variable. Which model evaluation metric enables this determination?	1 / 1 point
	R squared	
	Mean absolute error (MAE)	
	Mean squared error (MSE)	
	O P-value	
	⊘ Correct	
8.	Which of the following statements accurately describe running a randomized, controlled experiment? Select all that apply.	0.75 / 1 point
	☐ To be successful, data professionals must control for every factor in the experiment.	
	☐ It cannot have a control group.	
	It is typically used when arguing for causation between variables.	
	⊘ Correct	
	It is a study design that randomly assigns participants into groups.	
	⊘ Correct	
	You didn't select all the correct answers	