Go to next item

1.	What is the area surrounding a regression line, which describes the uncertainty around the predicted outcome at every value of X ?	1 / 1 point
	R squared Confidence band	
	Ordinary least squares	
	O Confidence interval	
	Correct The confidence band is the area surrounding a regression line, which describes the uncertainty around the predicted outcome at every value of X. The confidence band reveals the confidence interval for each point on a regression line.	
2.	$Fill in the blank: R squared measures the \underline{\hspace{1cm}} in the dependent variable, Y, that is explained by the independent variable, X.$	1 / 1 point
	O coefficient of accuracy	
	O proportion of accuracy	
	O coefficient of variation	
	proportion of variation	
	Correct R squared measures the proportion of variation in the dependent variable, Y, that is explained by the independent variable, Y. It is calculated by subtracting the sum of squared residuals (explained variance) divided by the total variance from 1.	
3.	Which linear regression evaluation metric is sensitive to large errors?	1/1 point
	Mean absolute error (MAE)	
	Mean squared error (MSE)	
	O Adjusted R squared	
	The coefficient of determination	
	 Correct Mean squared error (MSE) is sensitive to large errors. The MSE is the average of the squared difference between the predicted and actual values. 	