~	1.	What type of plot would you use to display the relationship between runs and one of the other numerical variables?	
1 / 1 point		histogram	
		box plot	
		scatterplot	
		Correct	
		bar plot	
		Plot the relationship between runs and at_bats, using at_bats as the explanatory variable. The relationship appears to be	
~	2.		
1/1 point	2.		
	2.	relationship appears to be	
	2.	relationship appears to be linear	
	2.	relationship appears to be linear Correct	

×	3.	Looking at your plot from the previous exercise, which of the following best describe the relationship between these two variables?
0 / 1 point		The relationship is negative, linear, and moderately strong. One of the potential outliers is a team with approximately 5520 at bats.
		The relationship is positive, linear, and moderately strong. One of the potential outliers is a team with approximately 5520 at bats.
		The relationship is positive, linear, and very weak. There are no outliers.
		The relationship is positive, linear, and very weak. One of the potential outliers is a team with approximately 5520 at bats.
		This should not be selected
1/1 point	4.	Fit a new model that uses homeruns to predict runs. Using the estimates from the R output, write the equation of the regression line. What does the slope tell us in the context of the relationship between success of a team and its home runs?
		For each additional home run, the model predicts 1.83 more runs, on average.
		Correct
		Each additional home run increases runs by 1.83.
		For each additional home run, the model predicts 1.83 fewer runs, on average.
		For each additional home run, the model predicts 415.24 more runs, on average.

For each additional home run, the model predicts 415.24 fewer runs, on average.

1/1 point	5.	What is the residual for the prediction of runs for a team with 5,579 at-bats? Choose the closest answer. -15.32 Correct
		15.32 713 5,579
1/1 point	6.	Which of the following statements about the residual plot is false ? The residuals appear to be randomly distributed around 0. The residuals show a curved pattern. Correct
		The plot is indicative of a linear relationship between runs and at-bats. The team with a very high residual compared to the others appears to be an outlier.

1/1 point	7.	Which of the following is true? The residuals are extremely left skewed, hence the normal distribution of residuals condition is not met. The residuals are extremely right skewed, hence the normal distribution of residuals
		 The residuals are perfectly symmetric, hence the normal distribution of residuals condition is met. The residuals are fairly symmetric, with only a slightly longer tail on the right, hence it would be appropriate to deem the the normal distribution of residuals condition met.
		Correct
1/1 point	8.	[TRUE / FALSE] Based on the residual plot from earlier, the constant variability condition appears to be met. True Correct
		False

