

Learning AP Statistics Question Stems: INTERPRET

In addition to learning the Statistics required for the AP exam, it is very useful to learn what the AP graders expect for your responses to various prompts. On the reverse of this sheet, there is a chart of different ways that the AP exam uses the words “interpret.” The column on the left has many examples of directions taken straight from AP exams from 2003 to 2010. You will be analyzing the direction of “*interpret*” using the prompts below.

1. Please fill in the rest of the chart. Using the first two rows as an example, fill in what the question is asking you to *interpret*. Put a check mark in the third column if you remember learning this. Then use the last column to write down what you don’t yet know in this prompt. Note: There might be some words in the prompt that are specific to the context of that problem. You should ignore those.
2. Analyze your filled-in chart. What are some overall things you can say about how the AP exam uses the word *interpret*?
3. What are characteristics of a “E” answer (remember that a E means your response is essentially correct)? Be general here. What would make a good answer for any of these prompts?
4. Do you think all right answers will be the same for each question? (To do this, look at a prompt that you’ve learned about. Do you think all right answers are the same for this prompt.)
5. Any other comments, observations, or questions you have?

AP STATS DIRECTION #2: INTERPRET

What the AP Says	What I have to interpret (2-4 words)	Check here if you've learned this	Questions or words you don't know
Interpret the 95 percent confidence level in this context.	<i>95% confidence level</i>	✓	
State the equation of the regression line for the magnet school and interpret its slope in the context of the question.	<i>Slope in context</i>	✓	
Construct and interpret a 90 percent confidence interval for the proportion of songs on the player that were loaded by Lori.			
Interpret the slope of the least squares regression line in the context of the study.			
The second house in the table has a residual of 49. Interpret this residual value in the context of the study.			
Construct and interpret a 95 percent confidence interval for the difference in mean response times between the two fire stations.			
Interpret what this p-value measures in the context of this study.			
Construct and interpret a 95 percent confidence interval for the difference between the proportion of the population who would survive at least 15 years if given.			
Interpret, in everyday language, what this p-value measures in the context of this study <u>and</u> state what conclusions should be made based on this p-value.			
Provide an interpretation in context for the estimated slope in Model 1.			
In the context of this study, provide an interpretation of the estimated coefficients for Model 3.			
Interpret your answer in the context of the situation.			
Interpret the value of r^2 in the context of this problem.			
Interpret the slope and intercept parameters in context.			
Provide a 95 percent confidence interval. Be sure to interpret this interval.			
Estimate the difference in mean times spent on homework for all sixth- and seventh-grade students in this school using an interval. Be sure to interpret your interval.			
Using the results of this sample, construct and interpret a 95 percent confidence interval for the proportion of similar markets that will experience a strong demand.			
Interpret this confidence interval in the context of this situation.			