

Claim-Evidence-Reasoning

A lab is performed to determine whether or not a car driving along Lake Avenue is speeding.

1. Which is an appropriate **Claim** for the Conclusion section of such a lab?
 - a. We analyzed the car's motion, plotted it on the computer and determined its speed.
 - b. This was a great lab! We had a lot of fun finding the speed of the car. We should do more of these.
 - c. We determined that the speed of the car was 49 mi/hr.
 - d. The car we analyzed was speeding.

2. Which is an appropriate statement of the **Evidence** for the Conclusion section of such a lab?
 - a. The car was speeding.
 - b. The calculated the slope of the line. We might have made an error in the calculation but it was 49 mi/hr.
 - c. The position-time plot of the car's motion is shown in the Data section. The slope of the line was found to be 49 mi/hr. This is 4 mi/hr over the speed limit.

3. Which is an appropriate statement of the **Reasoning** for the Conclusion section of such a lab?
 - a. Speed limit signs are always clearly posted on the road side.
 - b. Some cars go faster than other cars. The car we analyzed was speeding.
 - c. The slope of the line on a position-time plot is equal to the speed of the object.