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| **LG #** | **A114** | **Standards: S-ID.3.7, S-ID.3.8, S-ID.3.9** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that goes beyond instruction to the standard.**  **The student will be able to:**   * Collect two quantitative variables and analyze the type of association graphically using a scatter plot. If linear, identify the correlation coefficient and interpret in context of the real world situation.     **No major errors or omissions regarding the score 4.0 content.** | |
| **3.5** | In addition to 3.0, in-depth inferences and applications with partial success. | |
| **3.0** | **Students will be able to interpret linear models using linear regression in real-world context**  **The student will be able to:**   * [Interpret the slope (rate of change) of a linear model in the context of the data.](http://www.cpalms.org/Public/PreviewResource/Preview/56722) ([S-ID.3.7](http://www.cpalms.org/Public/PreviewResource/Preview/56723)) * [Interpret the intercept (constant term) of a linear model in the context of the data.](http://www.cpalms.org/Public/PreviewResource/Preview/56724) ([S-ID.3.7](http://www.cpalms.org/Public/PreviewResource/Preview/60545)) * [Interpret the correlation coefficient of a linear fit.](http://www.cpalms.org/Public/PreviewResource/Preview/69123) ([S-ID.3.8](http://www.cpalms.org/Public/PreviewResource/Preview/69134))   **No major errors or omissions regarding the score 3.0 content (simple or complex).** | |
| **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of 3.0 content. | |
| **2.0** | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **The student recognizes and describes specific terminology such as:**   |  |  |  | | --- | --- | --- | | * Correlation | * Linear Association | * Correlation Coefficient | | * Causation | * Linear Regression |  |   **The student will be able to:**   * [Compute (using technology) the correlation coefficient of a linear fit. (S-ID.3.8)](http://www.cpalms.org/Public/PreviewResource/Preview/69164) * [Distinguish between correlation and causation.](http://www.cpalms.org/Public/PreviewResource/Preview/70670) ([S-ID.3.9](http://www.cpalms.org/Public/PreviewResource/Preview/70672)) * [Understand that correlation or a strong linear association does NOT imply causation.](http://www.cpalms.org/Public/PreviewResource/Preview/70673) ([S-ID.3.9](http://www.cpalms.org/Public/PreviewResource/Preview/70675)) | | |
| **1.5** | Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content. | |
| **1.0** | With partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | |
| **0.5** | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | |
| **0.0** | Even with help, no understanding or skill is demonstrated | |