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| **LG #** | **A112** | **Standards:** | **S-ID.1.1, S-ID.1.2, S-ID.1.3** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard.****The student will be able to:*** Analyze and select one quantitative variable from census bureau data of the 50 states where they then represent information graphically, numerically, and verbally, in context.

**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 summarize, represent, and interpret data on a single count or measurement variable.****The student will be able to:*** [Use statistics appropriate to the shape of the data distribution to compare center (median, mean) of two or more different data sets.](http://www.cpalms.org/Public/PreviewResource/Preview/70160) ([S-ID.1.2](http://www.cpalms.org/Public/PreviewResource/Preview/70164))
* [Use statistics appropriate to the shape of the data distribution to compare spread (interquartile range, standard deviation) of two or more different data sets. (S-ID.1.2)](http://www.cpalms.org/Public/PreviewResource/Preview/70177)
* Interpret differences in shape, [center](http://www.cpalms.org/Public/PreviewResource/Preview/64136), and [spread](http://www.cpalms.org/Public/PreviewResource/Preview/64142) in the context of the data sets, [accounting for possible effects of extreme data points (outliers)](http://www.cpalms.org/Public/PreviewResource/Preview/64158). ([S-ID.1.3](http://www.cpalms.org/Public/PreviewResource/Preview/64147))

**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:**

|  |  |  |
| --- | --- | --- |
| * Skewed to the Right
 | * Symmetric
 | * Skewed to the Left
 |
| * Extreme Data Points (Minimum, Maximum)
 | * Interquartile Range
* Outlier
 | * Standard Deviation
 |

**The student will be able to:*** [Represent data on the real number line using dot plots.](http://www.cpalms.org/Public/PreviewResource/Preview/56674) ([S-ID.1.1](http://www.cpalms.org/Public/PreviewResource/Preview/56712))
* [Represent data on the real number line using histograms. (S-ID.1.1)](http://www.cpalms.org/Public/PreviewResource/Preview/56716)
* [Represent data on the real number line using box plots. (S-ID.1.1)](http://www.cpalms.org/Public/PreviewResource/Preview/56720)
* Find standard deviation of small data sets using formula for standard deviation. (S-ID.1.2)
 |
| **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 |