|  |  |  |  |
| --- | --- | --- | --- |
| **LG #** | **713** | **Standards:** | **7.SP.2.3, 7.SP.2.4** |
| **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:*** Given one set of data, select one variable that will create two subsets within the data set that will have similar variabilities and different measures of center. (i.e. Given data on one professional football team, analyze weight, height, or salary based on position or experience.)

**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 draw informal comparative inferences about two populations.****The student will be able to:*** [Interpret the difference in the mean or median of two different data sets in terms of variability. (7.SP.2.3)](http://www.cpalms.org/Public/PreviewResource/Preview/70682)
* [Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities. (7.SP.2.3)](http://www.cpalms.org/Public/PreviewResource/Preview/70681)
* [Compare two populations by using the means and/or medians of data collected from random samples. (7.SP.2.4)](http://www.cpalms.org/Public/PreviewResource/Preview/66143)
* [Compare two populations by using the mean absolute deviations and/or interquartile ranges of data collected from random samples. (7.SP.2.4)](http://www.cpalms.org/Public/PreviewResource/Preview/66143)
* [Draw inferences about populations using measures of central tendency and variability from random samples. (7.SP.2.4)](http://www.cpalms.org/Public/PreviewResource/Preview/66146)

**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:**

|  |  |  |  |
| --- | --- | --- | --- |
| * Representative Sample
* Simple Random Sample
* Stratified Random Sample
* Systematic Random Sample
* Voluntary Response Sample
* Convenience Sample
* Measures of Central Tendency
 | * Random Sample
* Sample Space
* Comparative Data
* Margin of Error
* Variation
* Survey
* Outlier
* Population
 | * Inference
* Shape
* Spread
* Variability
* Size
* Variation
* Simple Event
* Generalization
 | * Histogram
* Stem-and-Leaf Plot
* Box Plot
* Circle Graph
* Valid
* Biased
* Unbiased
 |

**The student will be able to:*** Understand that the data requires consideration of the measures of variability as well as mean or median. (7.SP.2.3)
* Find the difference in the mean or median of two different data sets. (7.SP.2.3)
* Calculate the measures of central tendency and variability. (7.SP.2.4)
 |
| **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 |