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| **LG #** | **712** | **Standards:** | **7.SP.1.1, 7.SP.1.2** |
| **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:**   * Determine the validity of conclusions drawn about a population by analyzing the data collection process.   **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 use random sampling to draw inferences about a population.**  **The student will be able to:**   * Understand and explain that inferences about a population can be made by examining a sample of the population. (7.SP.1.1) * [Explain why the validity of a sample depends on whether the sample is representative of the population. (7.SP.1.1)](http://www.cpalms.org/Public/PreviewResource/Preview/65210) * [Draw inferences about a population based on data generated by random samples. (7.SP.1.2)](http://www.cpalms.org/Public/PreviewResource/Preview/65787) * Generate multiple samples of the same size [to gauge the variation in estimates](http://www.cpalms.org/Public/PreviewResource/Preview/65790) or predictions. (7.SP.1.2)   **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:**   |  |  |  |  | | --- | --- | --- | --- | | * Random Sample * Representative Sample * Voluntary Response Sample * Simple Random Sample * Stratified Random Sample * Systematic Random Sample * Convenience Sample | * Population * Simple Event * Generalization * Inference * Margin of Error * Box Plot * Outlier | * Valid * Biased * Unbiased * Shape * Spread * Size * Variation | * Survey * Circle Graph * Histogram * Stem-and-Leaf Plot * Comparative Data * Sample Space |   **The student will be able to:**   * Distinguish between a sample and a population. (7.SP.1.1) * [Define a random sample. (7.SP.1.1)](http://www.cpalms.org/Public/PreviewResource/Preview/65207) * [Generate a random sample that is representative of a given population. (7.SP.1.1)](http://www.cpalms.org/Public/PreviewResource/Preview/65204) * Generate multiple random samples. (7.SP.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 | | |