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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:**

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| --- | --- | --- | --- |
| * 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 |