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| **LG #** | **708** | **Standards: 7.G.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:*** Demonstrate how the formula for the area of a circle can be derived from the area of a parallelogram.
* Determine the area of a composite figure composed of polygons and circle segments.

**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 the formulas for the area and circumference of a circle to solve problems.****The student will be able to:*** [Know](http://www.cpalms.org/Public/PreviewResource/Preview/70706) and [apply the formula for the circumference of a circle and use it to solve problems](http://www.cpalms.org/Public/PreviewResource/Preview/70717). (7.G.2.4)
* [Know](http://www.cpalms.org/Public/PreviewResource/Preview/70713) and [apply the formula for the area of a circle and use it to solve problems](http://www.cpalms.org/Public/PreviewResource/Preview/70721). (7.G.2.4)
* [Give an informal derivation of the relationship between the area and circumference of a circle. (7.G.2.4)](http://www.cpalms.org/Public/PreviewResource/Preview/70722)
* Determine the diameter or radius of a circle when the circumference is given. (7.G.2.4)

**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:**

|  |  |  |
| --- | --- | --- |
| * Diameter
* Radius
* Circumference
 | * Area
* Pi
* Chord
 | * Center
* Squared
* Formula
 |

**The student will be able to:*** Understand the meaning of pi. (7.G.2.4)
* Identify the diameter and radius of a circle, and understand the relationship between them. (7.G.2.4)
* Find the circumference and area of a circle given the diameter and/or the radius. (7.G.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 |