|  |  |  |  |
| --- | --- | --- | --- |
| **LG #** | **G12** | **Standards:** | **G-SRT.3.6, G-SRT.3.7, G-SRT.3.8** |
| **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:*** Model solutions to situations using trigonometric ratios and the Pythagorean Theorem by constructing equations that can be used to solve the problem.

**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 define trigonometric ratios and solve problems involving right triangles.****The student will be able to:*** [Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.](http://www.cpalms.org/Public/PreviewResource/Preview/72349) ([G-SRT.3.6](http://www.cpalms.org/Public/PreviewResource/Preview/72367))
* [Explain and use the relationship between the sine and cosine of complementary angles.](http://www.cpalms.org/Public/PreviewResource/Preview/73191) ([G-SRT.3.7](http://www.cpalms.org/Public/PreviewResource/Preview/73174))
* [Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.](http://www.cpalms.org/Public/PreviewResource/Preview/66153) ([G-SRT.3.8](http://www.cpalms.org/Public/PreviewResource/Preview/66163))

**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:**

|  |  |  |
| --- | --- | --- |
| * Right Triangles
 | * Trigonometric Ratios
 | * Ratio
 |
| * Acute Angles
* Sine
 | * Similarity
* Cosine
 | * Complementary Angles
* Tangent
 |
|  |  |  |

**The student will be able to:*** Understand that in similar triangles corresponding angles are congruent and the ratios of corresponding sides are equal. (G-SRT.3.6)
* [Identify the relationship between the sine and cosine of the acute angles of a right triangle.](http://www.cpalms.org/Public/PreviewResource/Preview/73185) ([G-SRT.3.7](http://www.cpalms.org/Public/PreviewResource/Preview/73142))
* [Apply the Pythagorean Theorem in real life and mathematical contexts.](http://www.cpalms.org/Public/PreviewResource/Preview/65211) ([G-SRT.3.8](http://www.cpalms.org/Public/PreviewResource/Preview/65212))
 |
| **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 |