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| **LG #** | **G10** | **Standards:** | **G-SRT.1.1, G-SRT.1.2, G-SRT.1.3** |
| **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:*** Prove or disprove that two given figures are similar using transformations and the definition of similarity.

**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 understand similarity in terms of similarity transformations.****The student will be able to:*** Verify experimentally the property of dilations given by a center and a scale factor: A dilation [takes a line not passing through the center of the dilation to a parallel line](http://www.cpalms.org/Public/PreviewResource/Preview/72887), and [leaves a line passing through the center unchanged](http://www.cpalms.org/Public/PreviewResource/Preview/72776). ([G-SRT.1.1a](http://www.cpalms.org/Public/PreviewResource/Preview/72961))
* [Verify experimentally the property of dilations given by a center and a scale factor: The dilation of a line segment is longer or shorter in the ratio given by the scale factor. (G-SRT.1.1b)](http://www.cpalms.org/Public/PreviewResource/Preview/72983)
* [Given two figures, use the definition of similarity in terms of similarity transformations to decide if they are similar.](http://www.cpalms.org/Public/PreviewResource/Preview/64366) ([G-SRT.1.2](http://www.cpalms.org/Public/PreviewResource/Preview/64367))
* [Explain using similarity transformations the meaning of similarity for triangles as the equality of all corresponding pairs of angles and the proportionality of all corresponding pairs of sides. (G-SRT.1.2)](http://www.cpalms.org/Public/PreviewResource/Preview/64452)
* [Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.](http://www.cpalms.org/Public/PreviewResource/Preview/73180) ([G-SRT.1.3](http://www.cpalms.org/Public/PreviewResource/Preview/72989))

**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:**

|  |  |  |
| --- | --- | --- |
| * Dilation
 | * Center of Dilation
 | * Scale Factor
 |
| * Similarity Transformation
 | * Similar
 | * Ratio
 |
| * Corresponding Sides
* AA
 | * Proportionality
 | * Corresponding Angles
 |
|  |  |  |

**The student will be able to:*** Identify dilations and their scale factors. (G-SRT.1.1)
* Determine if two given figures are similar. (G-SRT.1.2)
* Identify triangle similarity by use of the AA criterion. (G-SRT.1.3)
 |
| **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 |