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| **LG #** | **804** | **Standards:** | **8.EE.2.5, 8.EE.2.6** |
| **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:**   * Create a mathematical situation where real-world data can be collected and modeled using a proportional relationship.   **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 the connections between proportional relationships, lines, and linear equations.**  **The student will be able to:**   * [Identify the slope of a linear relationship from equations, tables, and graphs. (8.EE.2.5)](http://www.cpalms.org/Public/PreviewResource/Preview/58624) * [Interpret the unit rate as the slope of a linear function. (8.EE.2.5)](http://www.cpalms.org/Public/PreviewResource/Preview/58625) * [Compare two proportional relationships represented in different ways (i.e. compare a distance-time graph to a distance-time equation to determine which of two moving objects has a greater speed). (8.EE.2.5)](http://www.cpalms.org/Public/PreviewResource/Preview/59187) * Explain why the slope, *m*, is the same between any two points on a line. (8.EE.2.6) * Derive the equations *y = mx* or *y = mx + b* for a line [through the origin](http://www.cpalms.org/Public/PreviewResource/Preview/66706) or a line [intercepting the vertical axis at *b*](http://www.cpalms.org/Public/PreviewResource/Preview/66710), respectively. (8.EE.2.6) * [Use similar triangles to explain why the slope, *m*, is the same between any two distinct points on a non-vertical line in the coordinate plane. (8.EE.2.6)](http://www.cpalms.org/Public/PreviewResource/Preview/66702)   **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:**   |  |  |  | | --- | --- | --- | | * Unit rate | * *y-*intercept | * Constant rate of change | | * Slope | * Slope-intercept form | * Direct variation | | * Proportional relationship | * Similar triangle | * Scale factor |   **The student will be able to:**   * Identify proportional relationships given a table or graph. (8.EE.2.5) * Given an equation or a proportional relationship, students can construct a graph of the relationship. (8.EE.2.5) * Represent proportional relationships with equations. (8.EE.2.5) * Identify the unit rate in tables, diagrams, and verbal descriptions of proportional relationships. (8.EE.2.5) * Describe similar figures using scale factor. (8.EE.2.6) | | |
| **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 | | |