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| **LG #** | **A103** | **Standards:** | **A-REI.1.1, A-REI.2.3, A-REI.2.4, A-REI.4.10** |
| **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 real world problem that uses a vertical motion model.   **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 solve equations and inequalities in one or two variables, and justify reasoning**  **The student will be able to:**   * [Construct a viable argument to justify a solution method.](http://www.cpalms.org/Public/PreviewResource/Preview/60554) ([A-REI.1.1](http://www.cpalms.org/Public/PreviewResource/Preview/58782)) * [Solve one variable equations with coefficients represented by letters. (A-REI.2.3)](http://www.cpalms.org/Public/PreviewResource/Preview/56525) * Derive the quadratic formula by using completing the square. (A-REI.2.4a) * Transform any quadratic equation in x into an equation of the form (x – p)² = q that has the same solutions. (A-REI.2.4a) * [Recognize when the quadratic formula has no real solutions. (A-REI.2.4b)](http://www.cpalms.org/Public/PreviewResource/Preview/59141) * Solve quadratic equations by factoring. (A-REI.2.4b) * [Solve quadratic equations using quadratic formula.](http://www.cpalms.org/Public/PreviewResource/Preview/68274) ([A-REI.2.4b](http://www.cpalms.org/Public/PreviewResource/Preview/68316)) * [Solve quadratic equations using completing the square method.](http://www.cpalms.org/Public/PreviewResource/Preview/62553) ([A-REI.2.4b](http://www.cpalms.org/Public/PreviewResource/Preview/62555)) * [Determine the best method for solving a quadratic equation. (A-REI.2.4b)](http://www.cpalms.org/Public/PreviewResource/Preview/58804)   **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:**   |  |  |  | | --- | --- | --- | | * Variable * Linear Equation * Quadratic Equation | * Coefficient * Completing the Square * Quadratic Formula | * Complex Number * Factor * Linear Inequality | | * Linear Inequality |  |  | |  |  |  | |  |  |  |   **The student will be able to:**   * [Explain each step in solving a simple equation.](http://www.cpalms.org/Public/PreviewResource/Preview/58779) ([A-REI.1.1](http://www.cpalms.org/Public/PreviewResource/Preview/60552)) * [Solve linear equations in one variable.](http://www.cpalms.org/Public/PreviewResource/Preview/56521) ([A-REI.2.3](http://www.cpalms.org/Public/PreviewResource/Preview/56522)) * [Solve linear inequalities in one variable.](http://www.cpalms.org/Public/PreviewResource/Preview/55561) ([A-REI.2.3](http://www.cpalms.org/Public/PreviewResource/Preview/58785)) * Solve quadratic equations by inspection (e.g., for x² = 49). (A-REI.2.4b) * Solve quadratic equations by taking square roots. (A-REI.2.4b) * [Understand that the graph of an equation](http://www.cpalms.org/Public/PreviewResource/Preview/66771) in two variables is [the set of all its solutions](http://www.cpalms.org/Public/PreviewResource/Preview/66777) plotted in the coordinate plane, often forming a curve (which could be a line). ([A-REI.4.10](http://www.cpalms.org/Public/PreviewResource/Preview/66775)) | | |
| **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 | | |