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| **Content: Expressions and Equations** | | | **Grade Level: 8** | |
| **Standard: 8.EE.1**  Know and apply the properties of integer exponents to generate equivalent **numerical** expressions. For example, . | | | | |
| **I can:**  use laws of exponents to simplify numerical expressions.   * Negative Exponent Property      * Power of a Power Property * Zero Exponent Property      * Product of Powers Property * Quotient of Powers Property | | | | |
| **Score 4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught.**  **For example:**   * problems involving variables & coefficients * problems that require critical thinking to generalize the properties | | | **Sample Activities** |
| * Find two numbers that satisfy the equation and explain your reasoning. |
|  | **3.5** | In addition to achieving level 3.0 content, students have partial success with level 4.0 content. | |  |
| **Score 3.0** | **The student:**   * knows and applies **all five** properties of integer exponents to generate equivalent **numerical** expressions. * applies more than one property of exponents to simplify multi-step expressions. * solves word problems involving properties of exponents.   **The student exhibits no major errors or omissions.** | | |  |
|  | **2.5** | Knows and applies **all five** properties of integer exponents in problems involving **only one** property at a time. | |  |
| **Score 2.0** | **There are no major errors or omissions regarding the simpler details and processes as the student:**   * knows and applies **some** properties of integer exponents to generate equivalent **numerical** expressions. * applies one property of exponents to simplify single step expressions.   **However, the student exhibits major errors or omissions regarding the more complex ideas and processes.** | | |  |
|  | **1.5** | Partial knowledge of the 2.0 content, but major errors or omissions regarding the 3.0 content. | |  |
| **Score 1.0** | **With help, a 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 the 2.0 content, but not the 3.0 content. | |
| **Score 0.0** | **Even with help, no understanding or skill demonstrated.** | | |