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| **LG #** | **807** | **Standards:** | **8.F.1.1, 8.F.1.2, 8.F.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:*** Compare and contrast properties of linear and non-linear functions in real-world contexts (i.e. *Science connection:* How would the graph of an object falling in the atmosphere differ from the graph of an object falling in a vacuum?)
* Generate data given a verbal description, then make an argument for its classification of being linear or non-linear. (8.F.1.3)

**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, evaluate, and compare functions.****The student will be able to:*** [Compare the properties of two functions represented in different ways](http://www.cpalms.org/Public/PreviewResource/Preview/57919) (algebraically, graphically, numerically in tables, or by verbal descriptions). ([8.F.1.2](http://www.cpalms.org/Public/PreviewResource/Preview/57920))
* Identify a relation as a function from a [graph](http://www.cpalms.org/Public/PreviewResource/Preview/57846), [equation](http://www.cpalms.org/Public/PreviewResource/Preview/57845), or [set of ordered pairs](http://www.cpalms.org/Public/PreviewResource/Preview/57848). (8.F.1.1, [8.F.1.3](http://www.cpalms.org/Public/PreviewResource/Preview/60546))
* [Interpret the definition of a linear function as *y* = *mx* + *b*, whose graph is a straight line. (8.F.1.3)](http://www.cpalms.org/Public/PreviewResource/Preview/60550)
* [Give examples of functions that are not linear. For example A=s2 is not linear because its graph contains points that are not in a straight line.](http://www.cpalms.org/Public/PreviewResource/Preview/60551) ([8.F.1.3](http://www.cpalms.org/Public/PreviewResource/Preview/60553))

**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:**

|  |  |  |
| --- | --- | --- |
| * Function
 | * Ordered pair (*x*, *y*)
 | * Domain
 |
| * Function rule
 | * Coordinates (*x*, *y*)
 | * Range
 |
| * Function notation
* Input
 | * Relation
* Discrete
 | * Linear function
* Non-linear function
 |
| * Output
 | * Continuous
 | * Vertical line test
 |

**The student will be able to:*** Identify the graph of a straight line as having a constant rate of change. (8.EE.2.5 🡪 LG 804)
* [Understand that a function is a rule that assigns to each input exactly one output. (8.F.1.1)](http://www.cpalms.org/Public/PreviewResource/Preview/57732)
* Define the *x*-coordinate as the input (domain) and the *y*-coordinate as the output (range). (8.F.1.1)
* Find and graph inputs/outputs of a function on the coordinate plane. (8.F.1.1)
* Represent functions in multiple ways (numerically in tables, graphically, algebraically, and by verbal descriptions). (8.F.1.2)
 |
| **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 |