

# Grade 8 Functions Unit Exam Rubric

Name: \_\_\_\_\_ Teacher: \_\_\_\_\_ Date: \_\_\_\_\_

For student error analysis, use the following code system: concept error (CE), silly mistake (SM), calculation error (Calc).

**Content standard cluster:** Define, evaluate, and compare functions.

**8.F.1:** Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.

**8.F.2:** Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).

Test Questions	For Full Credit	Score	Overall Score	Percent	Student Error Type
1a	Each table filled out correctly for all toppings.	/10	/85		
1b	Correct points graphed and labelled.	/6			
2	a. Correct Yes/No answer provided. b. Correct explanation provided. c. Correct explanation provided.	/3			
3	a. Correct Yes/No answer provided. b. Correct explanation provided. c. Correct explanation provided.	/3			
4	Correct function rule provided.	/3			
5a	Correct column labels with correct $x$ and $y$ values for each chart provided.	/12			
5b	Correct graph for each function provided. Correct labels provided.	/5			
5c	Correct point of intersection provided along with correct explanation of what the coordinates represent.	/3			
5d	Correct explanation for both scenarios provided.	/2			
5e	Correct explanation provided for there are only positive $x$ values.	/1			
5f	Correct explanation provided for there are only positive $y$ values.	/1			
6	Correct components filled in for the rule column.	/9			
6	Correct components filled in for the table column.	/15			
6	Correct components filled in for the graph column.	/6			
6	Correct components filled in for the verbal model column.	/6			
Student Written Reflection					

Source: Adapted with permission from Aptakisic Junior High School, Buffalo Grove, Illinois.

Source for standards: National Governors Association Center for Best Practices & Council of Chief State School Officers. (2010). Common Core State Standards for mathematics. Washington, DC: Authors. Accessed at [www.corestandards.org/Math/Content/8/F/](http://www.corestandards.org/Math/Content/8/F/) on January 19, 2015.