Algebra OPFI Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**U4 LT3/4 Function Notation Quiz Review**

Success Criteria:

*LT 3: SWBAT evaluate functions utilizing function notation.*

**Evaluate f(x) = 7x – 4 when…**

1. x = 0 2. x = 1 3. x = -2 4. x = 10

**Evaluate f(x) = x3 when…**

5. x = 0 6. x = 4 7. x = 2 8. x = 1

**For g(x) = 4x, find the value of x for which…**

9. g(x) = 16 10. g(x) = -28 11. g(x) = 4 12. g(x) = 40

**For g(x) = x + 6, find the value of x for which…**

13. g(x) = 10 14. g(x) = -50 15. g(x) = 0 16. g(x) = 12

*LT 4: SWBAT interpret function notation in terms of real world context*

**17. The function f(x) = 500 – 125x represents how many miles f(x) the helicopter is from its destination after x hours.**

a. f(1) = 375 , interpret this value in terms of context. b. Find f(2) and interpret this value in terms of context.

c. Ms.N calculated f(-1) and got 350 . Explain if this makes sense it terms of the problem.

**The function f(x) represents the temperature (°F) of a classroom x hours after 8am. Explain the meaning of the following.**

18. f(0) = 50 19. f(3) = 75 20. f(4) = f(5)

**21. The function f(x) = 50x + 100 represents the amount of money you have saved after x weeks.**

a. f(5) = 350 , interpret this value in terms of context. b. Find f(2) and interpret this value in terms of context.

c. Ms.N calculated f(-2) and got 0 . Explain if this makes sense it terms of the problem.