Notes 1

Function Notation/Function Arithmetic – Notes **Name** _____

note: fxn is shorthand for function

day	F.1
lesson	• function notation $f(\#)$ • find x –values $f(x) = \#$ • function arithmetic

F.1N – Function Notation & Function Arithmetic – $f(\#)$

Function Notation

$f(x)$	• $f(x) = g(x) = h(x) =$ • you can use any letter except that which is used as a variable • same as $y =$ • $f(x) = 5x + 3$ is the same as $y = 5x + 3$	Rewrite $y = 2x^2 - 5x + 3$ in function notation three different ways. _____ _____ _____
$f(\#)$	• substitute given # into each x in function/equation	If $f(x) = 2x - 5$, what is $f(3)$? write $f(3)$ replace each x with 3 | simplify expression | $f(3) =$ |

If $f(x) = 25x + 8$, find the following:

Problem	Work	Answer use proper notation	Problem	Work	Answer use proper notation
$f(4)$			$f(0)$		
$f(-3)$			$f(\frac{4}{3})$		
$f(\frac{7}{5})$			*create your own*		

Finding x – Values

$f(x) = \#$	• rewrite fxn by substituting $f(x)$ for its given value	For the function $f(x) = 4x + 3$, find the value of $f(x) = -21$.

rewrite fxn	
substitute $f(x)$ for -21	
solve for x	

For the function $k(x) = -3x + 1$, find the value of x for the following:

Problem	Work	Answer	Problem	Work	Answer
$k(x) = -14$			$k(x) = 25$		
$k(x) = -3$			*create your own*		