SM1

7.6b **Functions Dice Practice**

Name _____

Due Date _____ Period _____

For this activity, we will practice function notation, combination of functions, and composition of functions.

Function Notation

Roll the die and record your function here:	Then evaluate the function at:
$f(x) =$	$f(-3) =$
$f(x) =$	$f(9) =$
$g(x) =$	$g(11) =$
$g(x) =$	$g(-5) =$

Combination of Functions

Roll the die and record your functions here:	Compute the following:	Then evaluate the function at:
$f(x) =$ $g(x) =$	$(f + g)(x) =$	$(f + g)(2) =$
$f(x) =$ $g(x) =$	$(f - g)(x) =$	$(f - g)(-4) =$
$f(x) =$ $g(x) =$	$(g - f)(x) =$	$(g - f)(7) =$
$f(x) =$ $g(x) =$	$(g + f)(x) =$	$(g + f)(-9) =$

Composition of Functions

Roll the die and record your functions here:	Then evaluate the function at:
$f(x) =$ $g(x) =$	$(f \circ g)(3) =$
$f(x) =$ $g(x) =$	$(f \circ g)(-8) =$
$f(x) =$ $g(x) =$	$(f \circ g)(12) =$
$f(x) =$ $g(x) =$	$(f \circ g)(-4) =$
$f(x) =$ $g(x) =$	$(g \circ f)(1) =$
$f(x) =$ $g(x) =$	$(g \circ f)(4) =$

Exploration

Roll the die and record your functions here:	Come up with your own combination or composition of functions:	Evaluate your function at a specific x-value:
$f(x) =$ $g(x) =$		
$f(x) =$ $g(x) =$		
$f(x) =$ $g(x) =$		
$f(x) =$ $g(x) =$		
$f(x) =$ $g(x) =$		
$f(x) =$ $g(x) =$		