Key

Sept. 15 Worksheet

1.	Linear functions	are	written	in	which	form
	Slope interce	ta	Y	_W	WHO)

- 2. For exponential growth, you ______, instead of ______ like in a linear function.

 Multiply / divide add/subtract
- 3. What is the "toolbox" or base function for an exponential? V = V
- 4. To represent growth or decay, what is the function?

What does the A represent?

Starting point and y-intercept

What does the b represent?

growth or decay factor

5. How do we know between growth and decay?

6. Compare $f(x) = 5^{-x}$ and $g(x) = (1/5)^{x}$

X	f(x)	g(x)
-2	25	25
-1	5	6
0		
1	. 2	, 7
2	.64	.04

What do you notice?

they are the same

7. Common ratio is another way our ______ is represented?

base number/growth orderay factor

8. Starting value is another word for the _____?

"A" y-intercept

9. Find the equation of the exponential curve that passes through (0, 5) and (3, 40)

4-5(2)×