Name			Date	
Sec1		End of Year	Review	#1
Simpli 1.	ify. $8-2\cdot 5-3+5\cdot 4$	2.	$2 - 3 \cdot 6$	
3.	$44 \div 11 + 5 \cdot 7 - 5^2$	4.	$4 \cdot 9 - 8 + 3$	
5.	5 ³ -(-8)-12(-2)	6.	15-6÷2	
7.	$\frac{-23 - (-15)}{(-18 + 7) - (-5)}$	8.	$\frac{(-2)^2 - 3^2}{8 - 3(2)}$	
Simpli 9. 2(4	fy (x - 9)	10. —	6(2x-11)	
11. 9	-4(2x-7)	12. 6 ((7x-3)-2(x-1)	
Solve	using inverse operations.			
13.—	3(2x-9) = 2 - 5(3x+7)		14. $12x - 16x = 27$	

Solve.

15.
$$2(15x-10)-4(16x+10)=8$$
 16. $5(2x+3)+6x=-17$

17.
$$20-5x \ge 17-2x$$

18. $4(z-3)+3(2z+5)<-7$

19.
$$-3t + 7 > 25$$
 20. $\frac{3}{5}m + 2 > \frac{1}{3}m$

Solve for y. Then Graph.
21.
$$2x + 3y = 9$$

22. $4x + 2y - 8 = 12$

23.
$$5x - y = 10$$
 24. $8x + 2y = 16$

Solve for y. Then Graph

25. 3x - 2y = 8 26. -x - 2y = -8

27. y = -3 28. x = 4

REVIEW: Arithmetic-

Geometric -

Are the following arithmetic, geon	netric, or neither? Why?	
29. 1.4, 4.2, 12.6, 37.8	30. 57, 54, 51, 48	31. 76, 38, 9.5, 1.58
		, , ,
32. 2.3, 6.8, 11.3, 15.8	33. 26, 33, 41, 50	34. 98, 49, 24.5, 12.25

Write the explicit equation	ons for each sequence:	
35. 2, 8, 32,	36125, -25, -5,	37. 7, 19, 31,

Write the **explicit equations** for each sequence given a table of values:

39.

38.		
	x	f(x)
	4	24
	5	12
	6	6
	7	3
	8	1.5

x	1	2	3	4
f(x)	8	20	50	125

40.		
	x	f(x)
	0	7
	1	21
	2	63
	3	189
	4	567





43.		
	X	f(x)
	-3	39
	-2	45
	-1	51
	0	57
	1	63

Use the graph to find the **explicit equation**:









49. Sara wants to share her Halloween candy with every one in the school. On the first day, she gave 6 people candy. After that she decided to only give candy to 3 new people a day.

a) Create a table of at least 5 values

b) Create a graph of the information (Be sure to label everything!)

•	•	•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•	•	•
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	•	-	-	-	•	-	•	-	-	

c) Recursive Equation:

d) Explicit Equation:

50. The business club is projecting their frazzle sales for the year. They started by selling \$60 of frazzles on week 9. They predict to triple their sales each week.

a) Create a table of at least 5 values	b) Create a graph of the information	1									
	(Be sure to label everything!)	·	·	•	•	•	·	·	•	·	·
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	•	•	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	•	•
c) Recursive Equation:	d) Explicit Equation:										

51. Use the table of a linear function to find the rate of change and y-intercept	Minutes	Bounces
	0	4
	1	27
	2	50
	3	73

Option A	

Years	Investment Worth
0	\$600
1	\$950
2	\$1300
3	\$1650
5	\$2350

52. Which investment would be worth more at year 2?



53. Which investment follows a linear growth pattern? Which one follows an exponential growth pattern?

54. Given f(x) = -4x + 2, what is the y-intercept and rate of change?