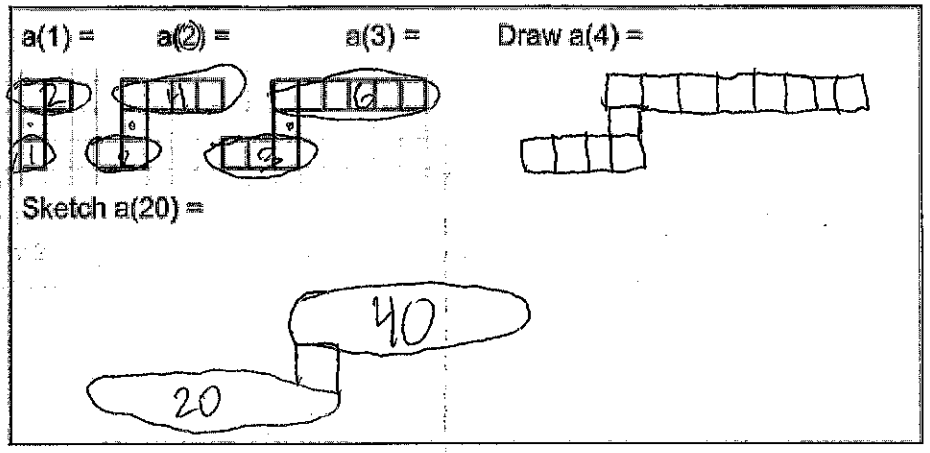
Day 21: Investigate Linear Pattern

Complete Pattern a(x)

x is the input, which is the figure # for the pattern

a(1) = a(2) = a(3) = Draw a(4) =



Sketch a(20) =

Complete Table

Figure #	Output (Square Units)
0	1
1	4
2	7
3	10
4	13
5	16
20	61
21.5	65.5
x	3x+1

+3 +3 +3

x + 2x + 1

Write an Equation

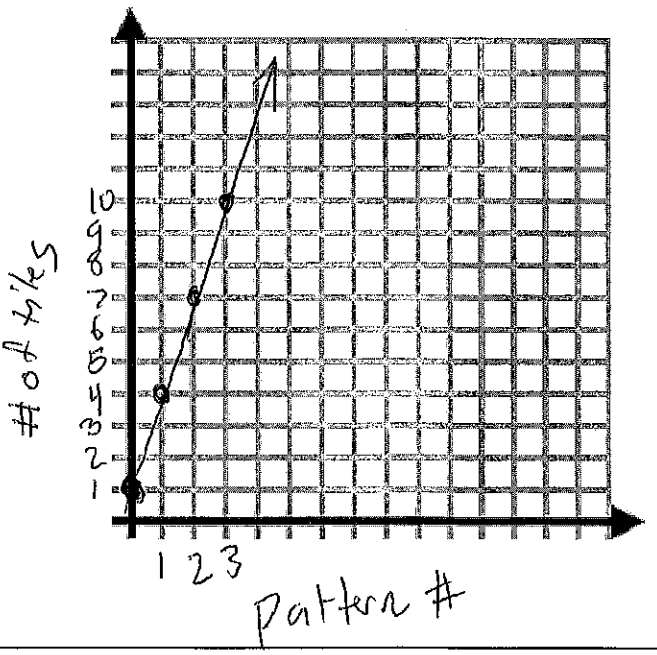
x: pattern # y: # of tiles

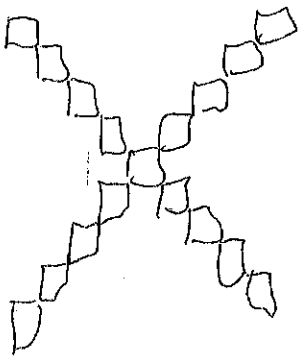
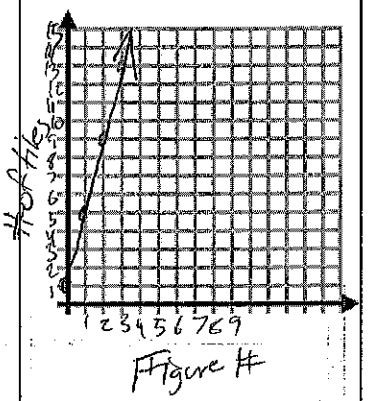
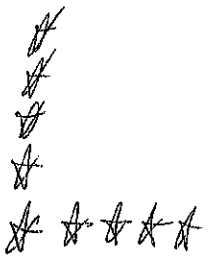
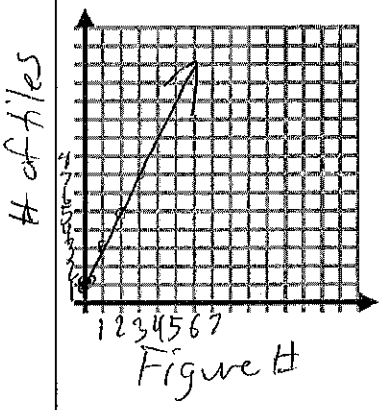
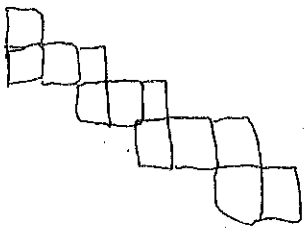
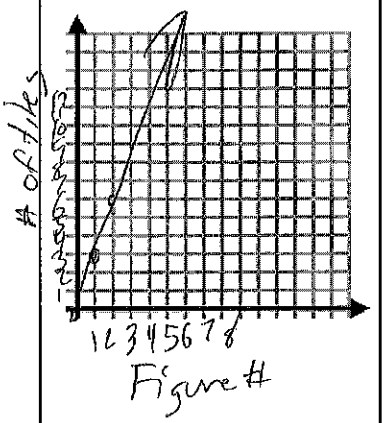
Equation:

$y = x + 2x + 1$

$y = 3x + 1$

Graph



Pattern	Draw the 4th figure	Complete Table	Write an Equation	Graph
b(x)		x | y 0 | 1 1 | 5 2 | 9 3 | 13 4 | 17 5 | 21 20 | 81 21.5 | 87 x | 4x+1	x: figure # y: # of tiles Equation: $y = 4x + 1$	 #of tiles 1 2 3 4 5 6 7 8 9 Figure #
c(x)		x | y 0 | 1 1 | 3 2 | 5 3 | 7 4 | 9 5 | 11 20 | 41 21.5 | 44 x | 2x+1	x: figure # y: # of tiles Equation: $y = 2x + 1$	 # of tiles 1 2 3 4 5 6 7 Figure #
d(x)		x | y 0 | 0 1 | 3 2 | 6 3 | 9 4 | 12 5 | 15 20 | 60 21.5 | 64.5 x | 3x	x: Figure # y: # of tiles Equation: $y = 3x$	 # of tiles 1 2 3 4 5 6 7 8 Figure #