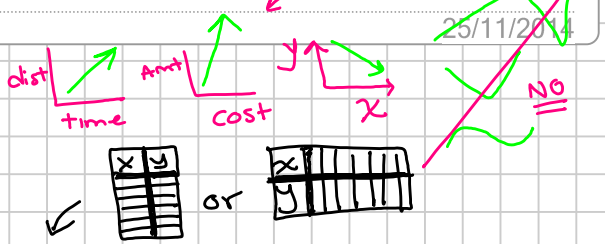
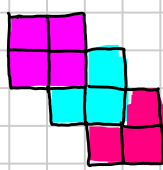
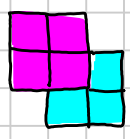
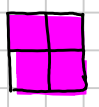


“Linear Relations”
 “Line” “straight”
 “similar”



① For each pattern, make a table of values, describe the pattern.

a) Figure 1 Figure 2 Figure 3 ← Main Idea “x”



Each main “y” tells me..... # Squares.

Fig #	# Squ.
1	4
2	7
3	10

add 1 add 3
 4 13

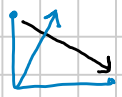
or

Fig #	1	2	3	4
# Squ.	4	7	10	13

patterns in Topic/Category

LINEAR vs NONLINEAR

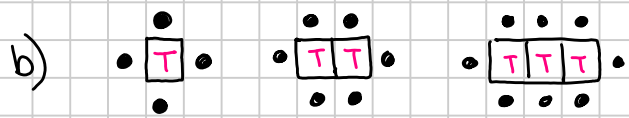
each “topic” will increase or decrease the same amount.



each topic will not have a constant increase or decrease

x	y
1	2
2	4
3	10
4	12

+2 +6 +2



# Tables	# Chairs
1	4
2	6
3	8
4	10
5	12
6	14
7	16

+1 +2

2) a) Identify Pattern.

$x \rightarrow +1$ $y \rightarrow +2$

b) Is it Linear? Explain.

Yes. x & y increase by a consistent amount.

c) Write an equation for "y in terms of x"

(Look for y using x)

★ set up all equations ★

$y = 2x$

pattern creates the equation

Put under the other pattern #

Put in front of x every time!

x	y
0	0
1	2
2	4
3	6

d) If $x = 86$, what is y?

$y = \frac{2}{1}x$

$y = \frac{2}{1}(86) = 172$

3. a) Identify Pattern.

x add 1 y subtract 3

b) Write an equation for y in terms of x

$y = -3x$

check it!

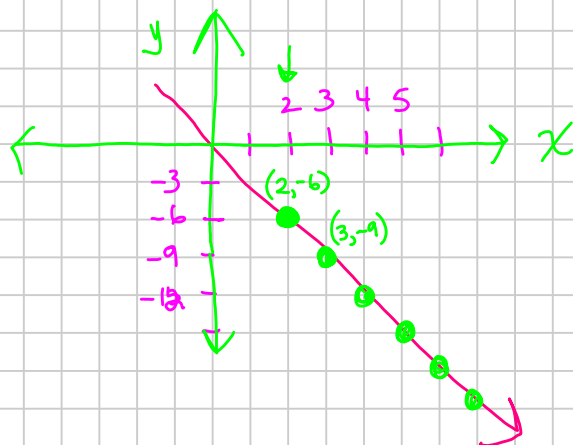
c) If $x = -46$, what is y?

$y = \frac{-3}{1}(x)$

$y = \frac{-3}{1}(-46)$

$y = 138$

x	y
2	-6
3	-9
4	-12
5	-15



"Left to Right"
Read Lines Like Words.

