

## 1. For each section, complete the missing information.

A. Notice how the pattern is changing. Now draw the missing figures and shade the part that grows in each consecutive figure.

Figure 0:



Figure 1:

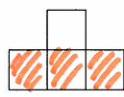


Figure 2:



Figure 3:

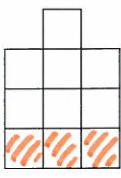


Figure 4:

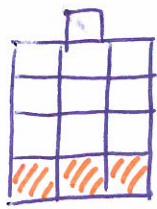
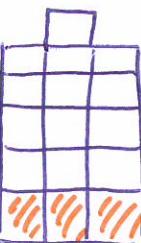


Figure 5:



C. Write a rule that fits this information.

Equation:  $y = 3x + 1$

B. Fill in the table using the information from the figures.

Figure #	Number of Tiles
0	1
1	4
2	7
3	10
4	13
5	16
x	

"begin" / starting point  
 $\downarrow +3 \text{ tiles}$   
 $\downarrow +3 \text{ tiles}$

Figure 0 (initial/begin):  $1^*$

Growth:  $3^*$

$$y = mx + b$$

$$y = 3x + 1 \leftarrow b$$

$m$   
"growth"

"rate of change"  
(from one figure to  
the next)

"beginning"  
"tiles at fig #0"  
"y-intercept"