

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.

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

Figure 0:



Figure 1:

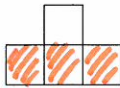


Figure 2:

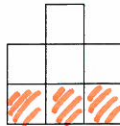


Figure 3:

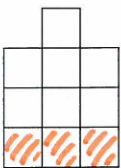


Figure 4:

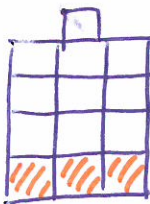


Figure 5:

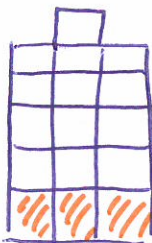


Figure #	Number of Tiles
0	1
1	4
2	7
3	10
4	13
5	16
x	

"begin"/starting point
 ↘ +3 tiles
 ↘ +3 tiles
 ↘ +3 tiles
 ↘ +3 tiles
 ↘ +3 tiles

C. Write a rule that fits this information.

Equation:

$$y = 3x + 1$$

m b
 ↓ ↓
 3 1

Figure 0 ("initial"/"begin"): 1^{*}
 Growth: 3^{*}

$$y = mx + b$$

$$y = 3x + 1$$

↑
 m

"growth"

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

← b

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