PART A: For each pattern below:
1. Explain how you build the next figure
2. Fill in the table of values
3. Write an *expression*

Pattern #1

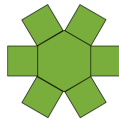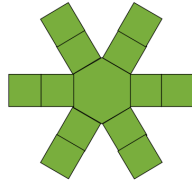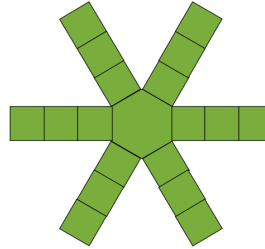| Fig. 1 | Fig. 2 | Fig. 3 |

1. _____
   _____
   _____

2.

Figure #	1	2	3	4	5	7	12	25	100
# of Shapes									

3. Write an expression for the **number of shapes** in terms of the figure number.

Pattern #2

Fig. 1   Fig. 2   Fig. 3

1. _____
   _____
   _____

2.

Figure #	1	2	3	4	5	7	12	25	100
Perimeter									

3. Write an expression for the **perimeter** in terms of the figure number.

PART B: For each pattern below:
1. Create a table of values
2. Write an *expression* for the number of squares in terms of the figure number
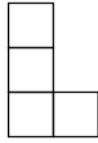
Pattern #3

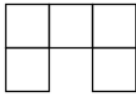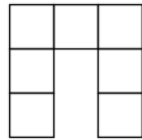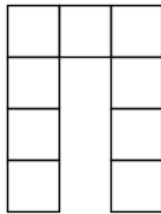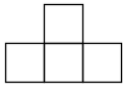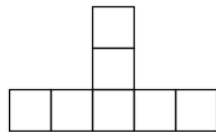Fig. 1   Fig. 2   Fig. 3
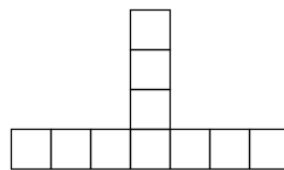
Pattern #4

Fig. 1

Fig. 2

Fig. 3

Pattern #5

Fig. 1

Fig. 2   Fig. 3