

## Toothpick Tables Revisited

Name \_\_\_\_\_ Period \_\_\_\_\_

Below are some of the tables created for different attributes of a figure created with toothpicks. For each of the tables do the following:

- a) Determine if linear or quadratic and label it.
- b) Determine the equation if you can and write it next to it also.

1.

Step	Perimeter
1	4
2	10
3	16
4	22
5	28

2.

Step	Area Missing from Rectangle
1	0
2	2
3	6
4	12
5	20

3.

Step	Toothpicks
1	4
2	13
3	26
4	43
5	64

4.

Step	Bottom Row
1	1
2	3
3	5
4	7
5	9

5.

Step	Area (total squares)
1	1
2	4
3	9
4	16
5	25

6.

Step	Toothpicks Added
1	
2	9
3	13
4	17
5	21

7.

Step	Number of Right Angles
1	4
2	18
3	40
4	70
5	108

8.

Step	Squares Added
1	1
2	3
3	5
4	7
5	9