Name:	Date:	

## **HW Section 10.2 Finding Patterns in a Table of Values**

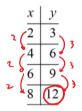
1. The perimeter of a square is equal to the side length multiplied by 4. Complete the following table of values:

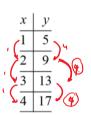
		_			
I	Perimeter(cm)		26	84	84
ĺ	Side Length	(4)	6.5	21	21

2. The following table is for the relationship between the side length of a hexagon and its perimeter. Complete the TOV:

Perimeter(cm)	18	42	NA	72
Side Length	3	7	_5	12

3. Given that the relationship is supposed to be linear, which row does not belong in the table of values? Which value would you change to make it into a linear relationship?



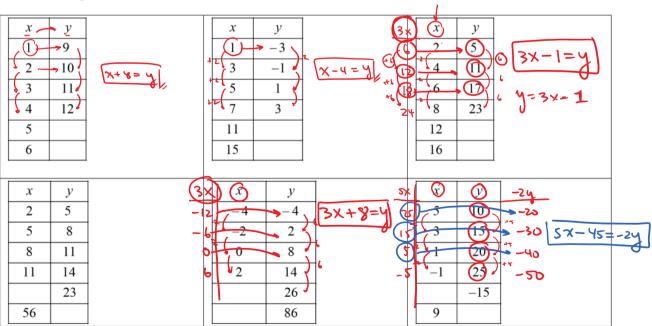


X	y
36-3	6
0	
3	10
6	12

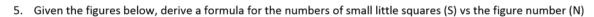
x	<u>y</u>
$\mathfrak{I}^2$	2
5	11)0
0	(3) (1) E
13	35

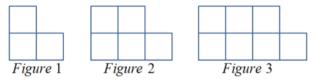
7 8 4 5 4 5 4 5 1 2 2 3 4 5 2 5 6 4 5 2 7 8 2 2	x	<u>y</u>	Х	14
4 5 1 -2 5 6 2 7 8 2	7	8	+2 (1	SO S
1 -2 5 6 2 7 8 2	4	5	4 4	523
5 6 - 7 8 2	1	-2	3	٠ ك ١
	5	6	7-17	8/2

4. Given each table of values, find the equation hat relates the two variables and then find the values for the missing boxes:

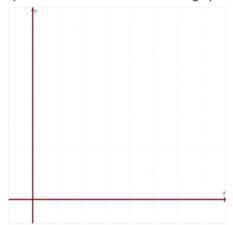


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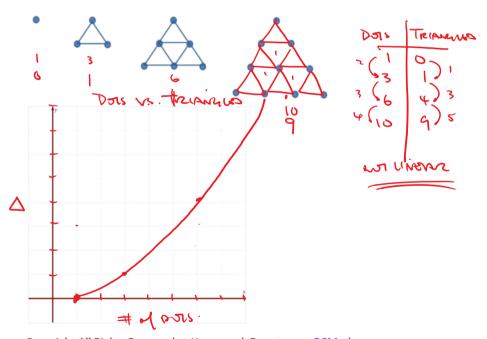




- a) Derive a formula for the total number of possible squares (T) vs the figure number (N)?
- b) Make a table of values and then graph it. Is this a linear relationship?



6. Challenge: Suppose you connect the dots next to each other and count the number of little triangles. Make a table of values for the number of dots and the number of little triangles. Is this relationship linear?



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