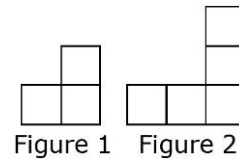


Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Wksht 6.1

1. a) Draw the next two figures in this series.



- b) Create a table of values comparing the number of squares and the figure number.
- c) Describe the pattern.
- d) Write the equation that represents this pattern.
- e) How many squares are in Figure 15?
- f) Which figure number has 69 squares?
2. A number pattern starts at 1.5. Each number after that is four more than the number before.
- a) Make a table of values for the first five terms.
- b) Develop an equation that can be used to determine the value of each term in the pattern.
- c) What is the value of the 95th term?
- d) Which term has a value of 237.5?
3. What linear equation models the relationship between the values in each table?

a)

<b><i>d</i></b>	0	1	2	3
<b><i>t</i></b>	11	16	21	26

b)

<b><i>c</i></b>	1	2	3	4
<b><i>r</i></b>	-2.1	-0.6	0.9	2.4

4. On top of the \$45 monthly fee, Sam's cell phone plan charges \$0.15 for every text message he sends or receives.
- a) Develop an equation to calculate the monthly bill.
- b) Complete a table of values comparing the number of text messages and the monthly cost.
- c) What would Sam's bill be if there were 20 text messages in a month?
- d) If Sam budgets \$80 a month for his cell phone, how many text messages can he send or receive each month? Explain.