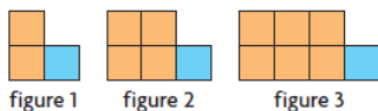


Review Day #1 - Patterns and Relationships

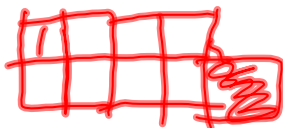
A geometric pattern is a sequence of figures made up of several pieces. There is often a relationship between the figure number (i.e. Figure 3) and the number of pieces required to build it. The pattern can be described in various ways.

Example One

A geometric pattern:



a) Sketch figure 4 in the pattern.



- b) Determine the number of squares in figure 4 in the pattern using a table of values.

Fig #	# of boxes
1	3
2	5
3	7
4	9

- c) Determine the number of squares in figure 4 in the pattern using words or an algebraic expression.

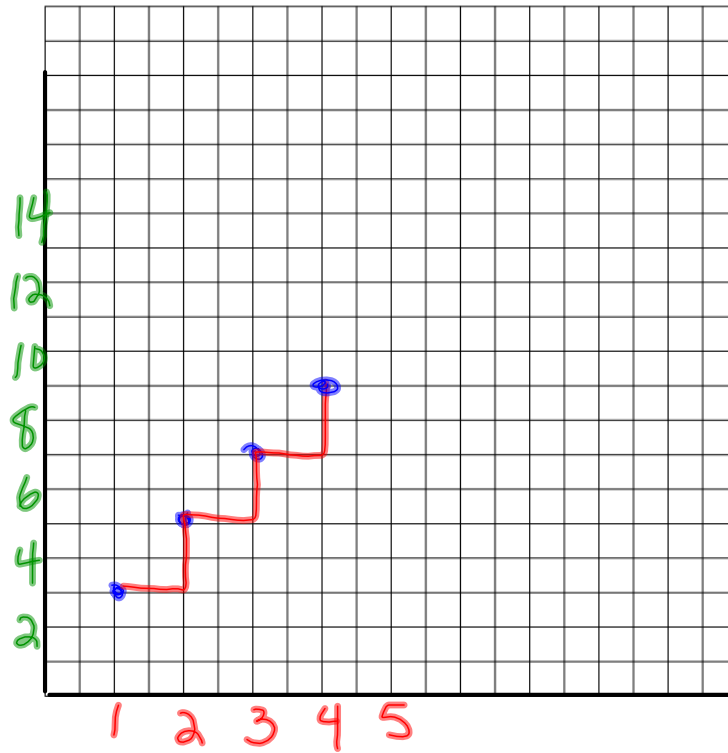
$$\text{Figure \#} \times 2 + 1 = \text{value}$$

$$n = 2f + 1$$

n = number of squares

f = fig #

d) Determine the number of squares in figure 4 in the pattern using a scatter plot.



Complete p. 502 #1, 2.

I WILL BE CHECKING HOMEWORK TOMORROW!