Lesson 3.1.3 Resource Page Problem 3-18

Tile Pattern:

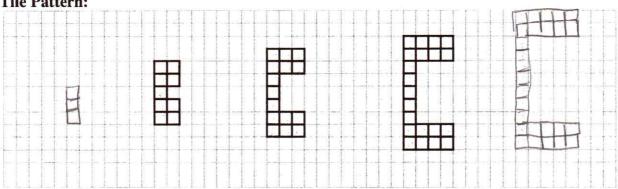


Figure 0

Figure 1

Figure 2

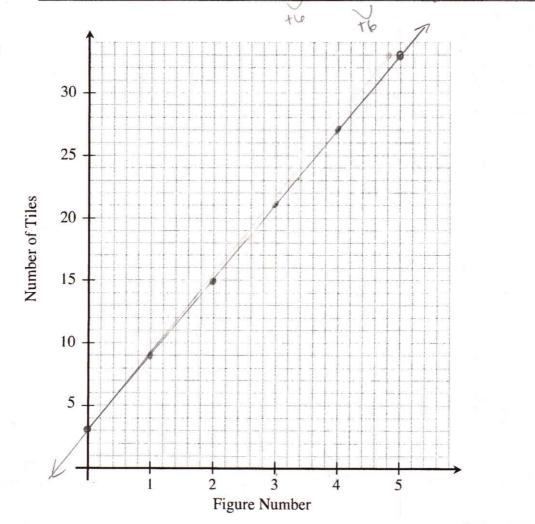
Figure 3

Figure 4

Table:

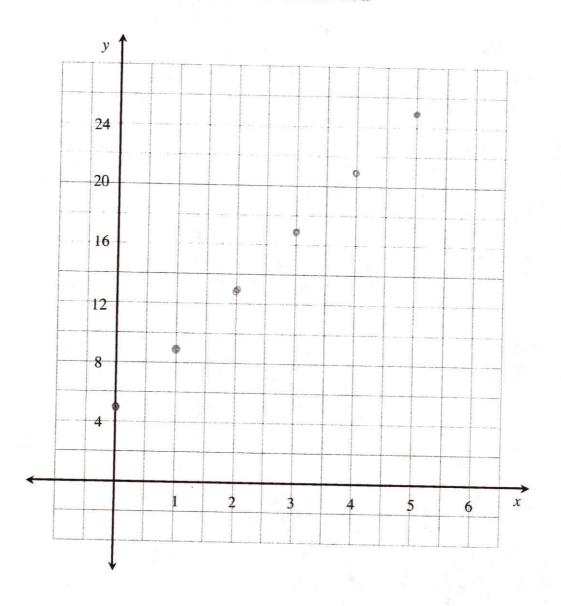
Figure Number	0	1	2	3	4	5
Number of Tiles	3	9	15	21	27	33

Graph:



Lesson 3.1.2B Resource Page Problems 3-11 and 3-12

John's Giant Redwood



a	12					1
1	115	17	21	25	29	7
1) IT	1 +	7	7	71	1
		N 1	-y -y +	-4 -4 +4 +1	- u - u + u + u +	N N N N N N N N N N N N N N N N N N N

John's Giant Redwood

John found the data in the tale below about his favorite redwood tree. He wondered if he could use it to predict the height of the tree at other points of time. Consider this as you analyze the data and answer the questions below. Be ready to share your answers with the class.

Number of Years after planting	3	4	5
Height of Tree (in Feet)	17	21	25

	,
a.	How tall was the tree 2 years after it was planted? What about 7 years after it was planted?
	How do you know? 13 feet@ayrs 33 feet@ 7 years; expanded
b.	How tall was the tree the year it was planted?
	4 was 5ft whom planted
C. (Estimate the height of the tree 50 years after it was planted. How did you make your
de	prediction? Of Supers = 06 6 5 5yrs = 50 yr > 5x = 1250 Actual answer
200	at Supars 725 feet 755 = 150 Action
	X +Pet X=250-ft U=4(50)+5
hn d	Estimate the height of the tree 50 years after it was planted. How did you make your prediction? At Syears 725 feet $\frac{5yrs}{25ft} = \frac{50 yr}{x feet}$ $\frac{5x}{x} = \frac{1250}{x}$ Actual answer ecided to find out more about his favorite redwood tree by graphing the data.
a.	
b.	Does it make sense to connect the points?
	US, It is growing throughout the year
c.	According to the graph, what was the height of the tree 1.5 years after it was planted?
	~10-11 feet (using equation @1.5, the tree is 11 feet)
d.	Can you use the graph to predict the height of the redwood tree 20 years after it was planted?
	no, it only goes to 6,5 years
e.	Could I use an equation to make the 20 year prediction? If so, what is the equation (rule) for
	the growth of the tree?
	m=4f+1year y=4x+5 b=5ft u=4(20)+5
	h= 5ft 11-4(20)+5

y= 85ft 20 years after it was planted