Pattern Stations

Direction: Go to each station with a partner. After completing a station come see me to see if you did it correctly for a sticker. There are two stations with stars- these are the challenging stations! Please write which station you are at.

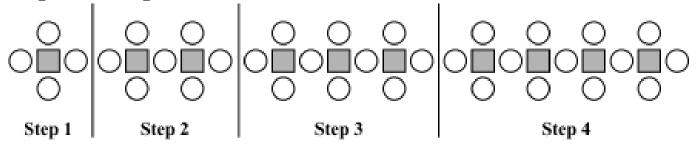
Step Number	Number of Units	
6		
7		
8		
10		
Describe any number patterns you notice. Make an equation if you can.		
	8 9 10 escribe any number pa	

1. Station

Station				
2. Make a sketch or show step 5.	3.	3. Complete the table of values below.		
		Step Number	Number of Units	
		5		
		6 7		
		8		
How many units make up this step?		10		
How many units would step 25 be?	Describe any number patterns you notice. Make an equation if you can.			

Station P

Don made a pattern using circles and squares. The first four steps of his pattern are shown below.



Station A

Kate wrote the number pattern shown below. 5, 20, 80, 320, . . .

Station T1

Sheila started the geometric pattern shown below.

1, 3, 9, 27, ___

Station T2

Francine started the number pattern shown below using the rule "multiply the previous number by 2 and then add 3 to the result to get the next number."

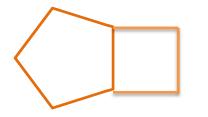
1, 5, 13, 29 . . .

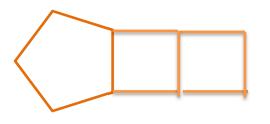
Station E

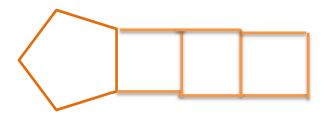
A comet passed by Earth in the year 1835. It passes by Earth every 60 years. (make 1835 step one)

Station R

The first three stages are shown below:

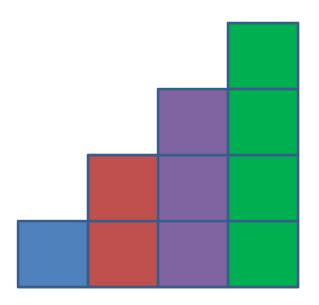






Station N

A "staircase" that is 4 cubes high is shown below. Notice that 10 cubes are needed to build the staircase.



Height of	1	2	3	4
Height of Stair Case				
Number of	1	3	6	10
cubes				
needed				