



**Date:**

SCHEDULE

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Download Handout #1 From Website & Name It:  
***Day6LastNamePatternsAndRelationships.pdf***

**Learning Goals:**

Students will be able to demonstrate an ability to represent geometric patterns in a variety of ways and determine a term, given its term number by extending growing and shrinking patterns.



**Mind Buster:**

Identifying and Representing Patterns



**Patterns and Relationships:**

*Day 6: Multiple Representations of Patterns*



**Consolidation:**

Making Connections Between Description, Graph, Table, and Term Number/Terms

**Ensure to Double-Check Your Work!**



TECUMSEH VISTA ACADEMY

**MATHLETES**

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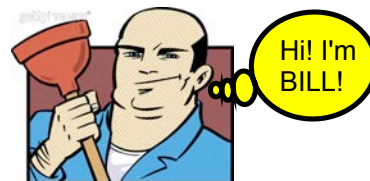


## Making Connections

MIND BUSTER

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Bill the plumber charges \$75 to show up for a service call and also charges \$30/hr to make any repairs.



a) Represent this pattern in a table of values.

Time (hours)	Cost (\$)

b) Write the pattern rules for this pattern in words below:

Time (s)	Distance (m)
0	10
1	8
2	6
3	4
4	2
5	0

a) Does this table represent a growing or shrinking pattern? Explain how you know.

b) Write the pattern rules in words for this pattern.



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# Patterning & Relationships Culminating Task

LESSON

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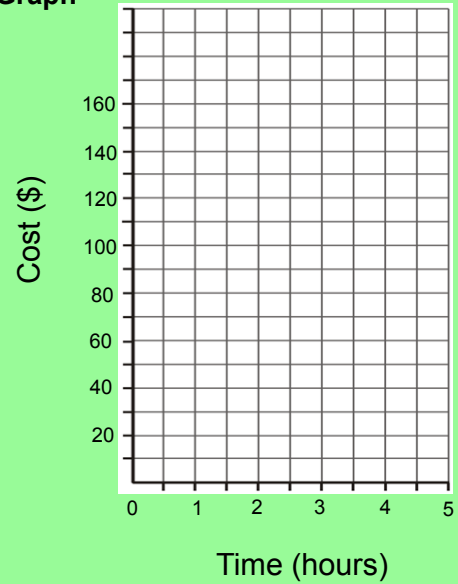
## Situation #1 - Given a Table

Table of Values	
Time (h)	Cost (\$)
0	20
1	40
2	60
3	80
4	100
5	120

Write the Pattern Rules in Words

Find the Cost After 22 Hours

Graph

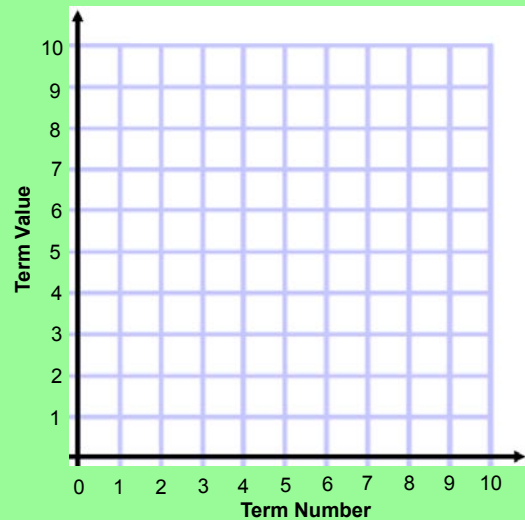


## Situation #2 - Given Pattern Rules in Words

**Pattern Rules in Words** Start with 3 and add 2 to each term to get the next term.

Table of Values	
Term Number	Term Value

Graph



What Term Number Has a Term Value of 97?



### Situation #3 - Given a Table

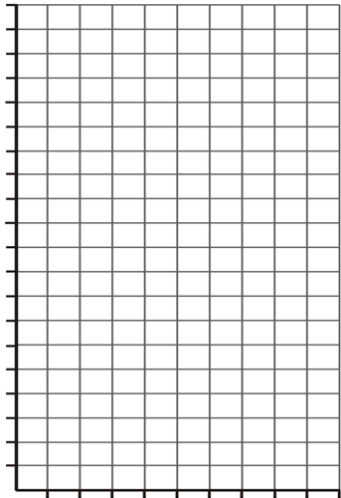
**Write the Pattern Rule in Words**

**Table of Values**

Term Number	Term Value
0	21
1	17
2	13
3	9
4	5
5	1

**Determine the Term Value of Term Number 14**

**Graph**



### Situation #4 - Given a Graph

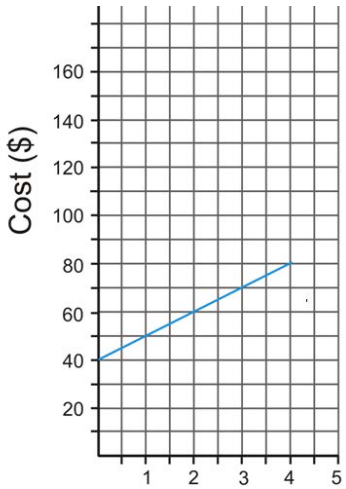
**Write the Pattern Rule in Words**

**Table of Values**

Time (h)	Cost (\$)

**After how long would the cost be \$210?**

**Graph**





# Think, Pair, Share - In Groups of 3

CONSOLIDATION & DEBRIEF

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Each group will be required to **create their own pattern** using the representation indicated on their **Patterning Representation Card** given to you by the Teacher. The card will ask you to create a pattern in **words, a table or a graph**.

## Materials:

- Your **Patterning Representation Card**.
- The BaiBoard App on iPad or Chart paper & markers.

## Instructions:

1. Use your **black marker** to label your chart paper.
2. With your group, you will **create** your own pattern in the representation given to you on your card.
3. Once your group has created your pattern, you will trade off with another group in an attempt to show the other **two** representations.
4. Each group will use **Explain Everything** on the iPad to show how they found the other two representations.

Situation #3 - Given a Table

Write the Pattern Rule in Words

Term Number	Term Value
0	21
1	17
2	13
3	9
4	5
5	1

Determine the Term Value of Term Number 14

Graph

Situation #3 - Given a Table

Write the Pattern Rule in Words

Term Number	Term Value
0	21
1	17
2	13
3	9
4	5
5	1

Determine the Term Value of Term Number 14

Graph



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