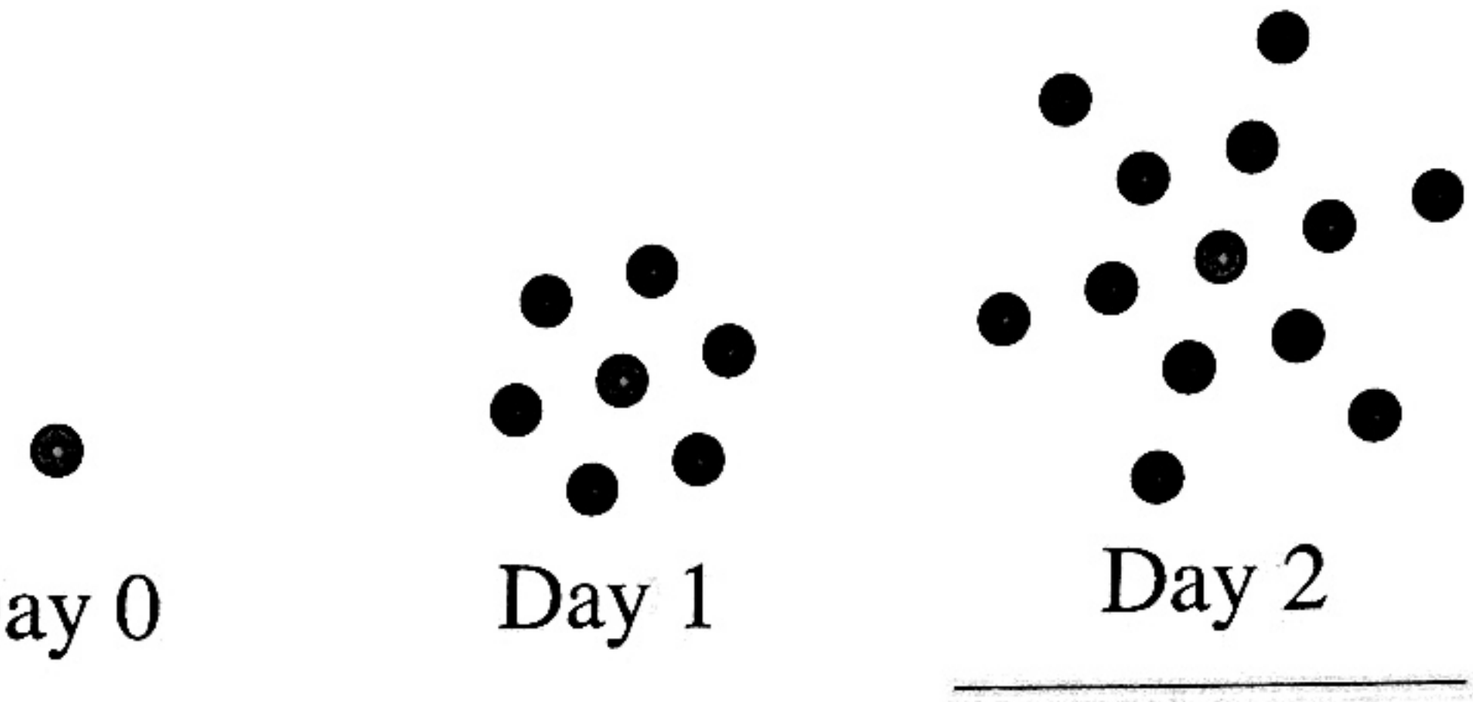
Name: _____ Period: _____

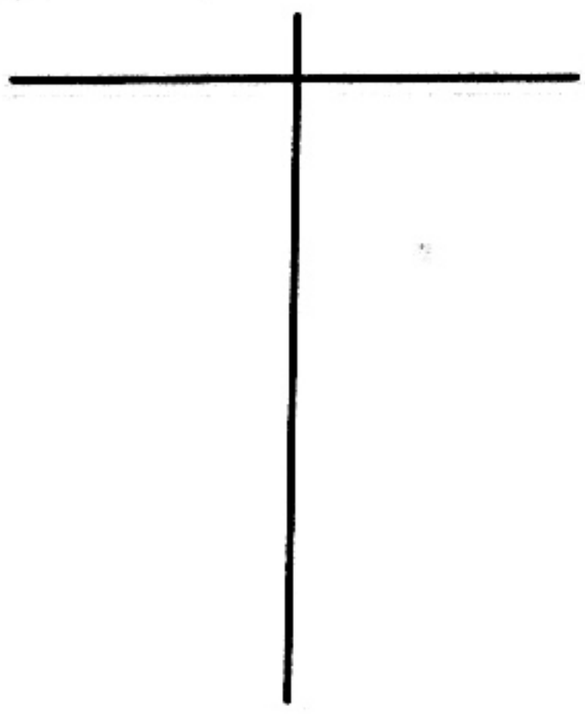
Warm Up 2.3

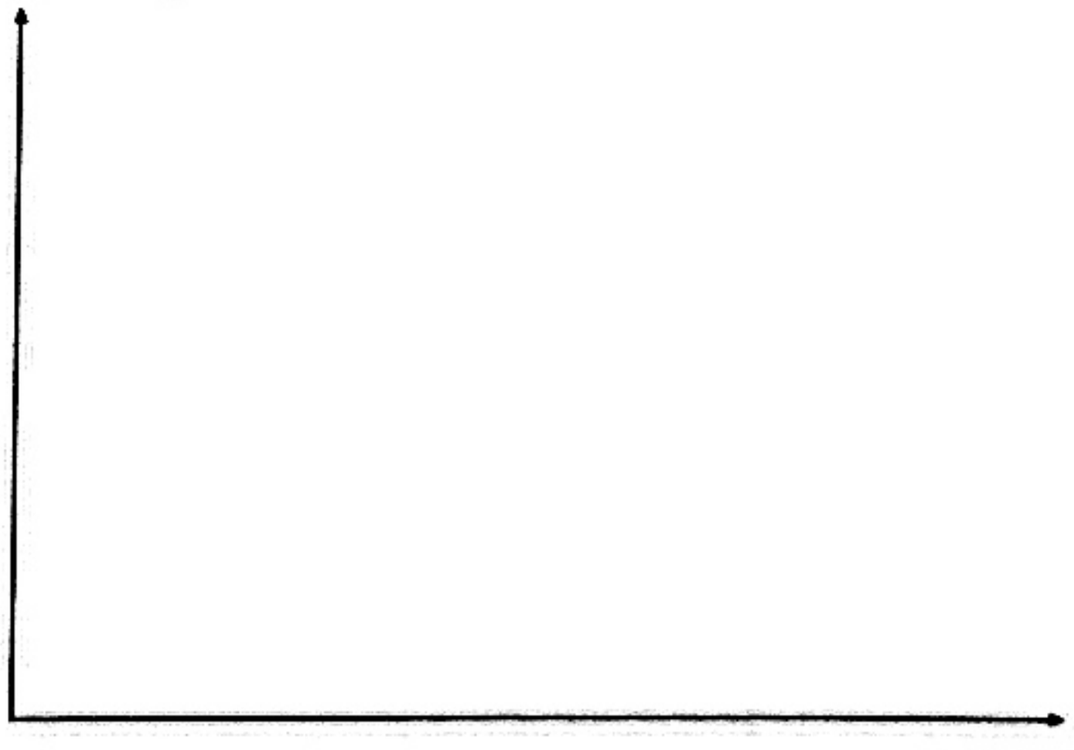


Above is a growing pattern. Create the following:

1. A Table

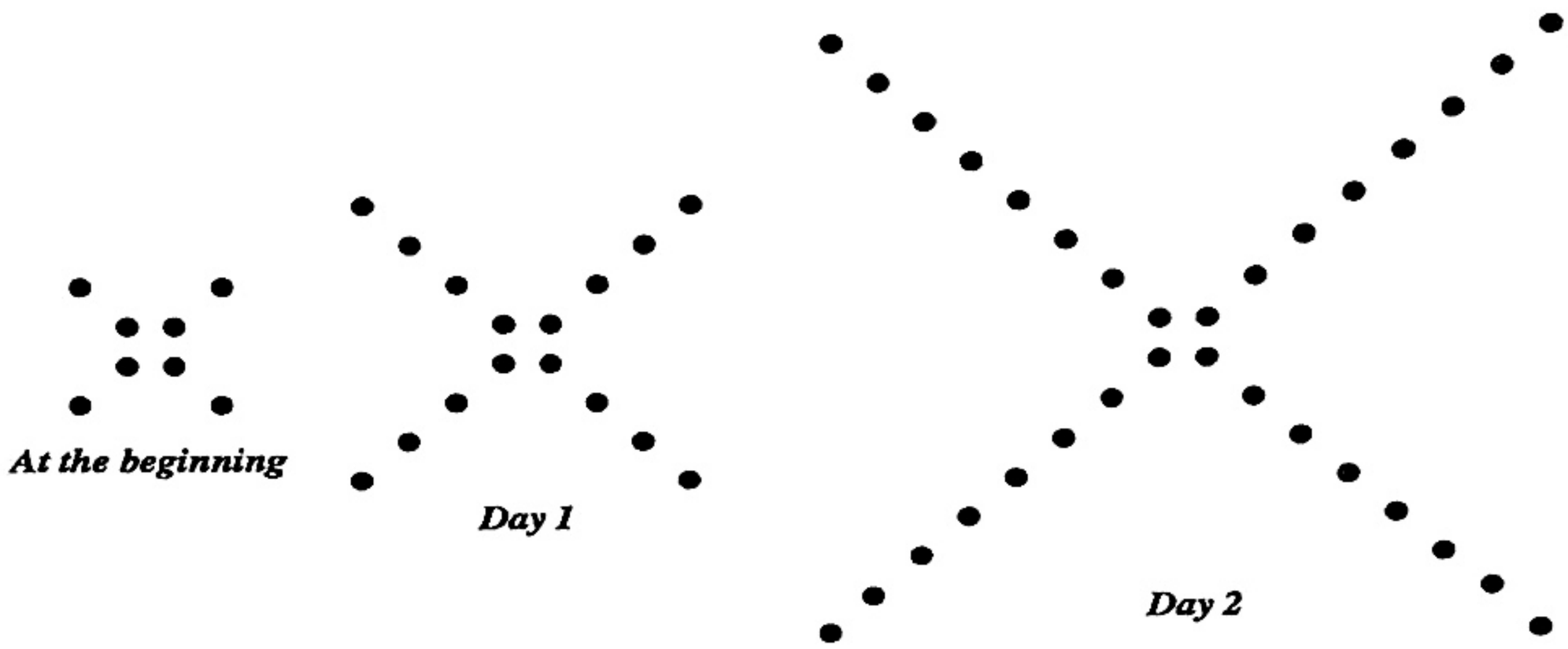
2. A Graph





3. A Recursive Formula

4. An Explicit Formula



Above is a growing pattern. Create the following:

1. A Table

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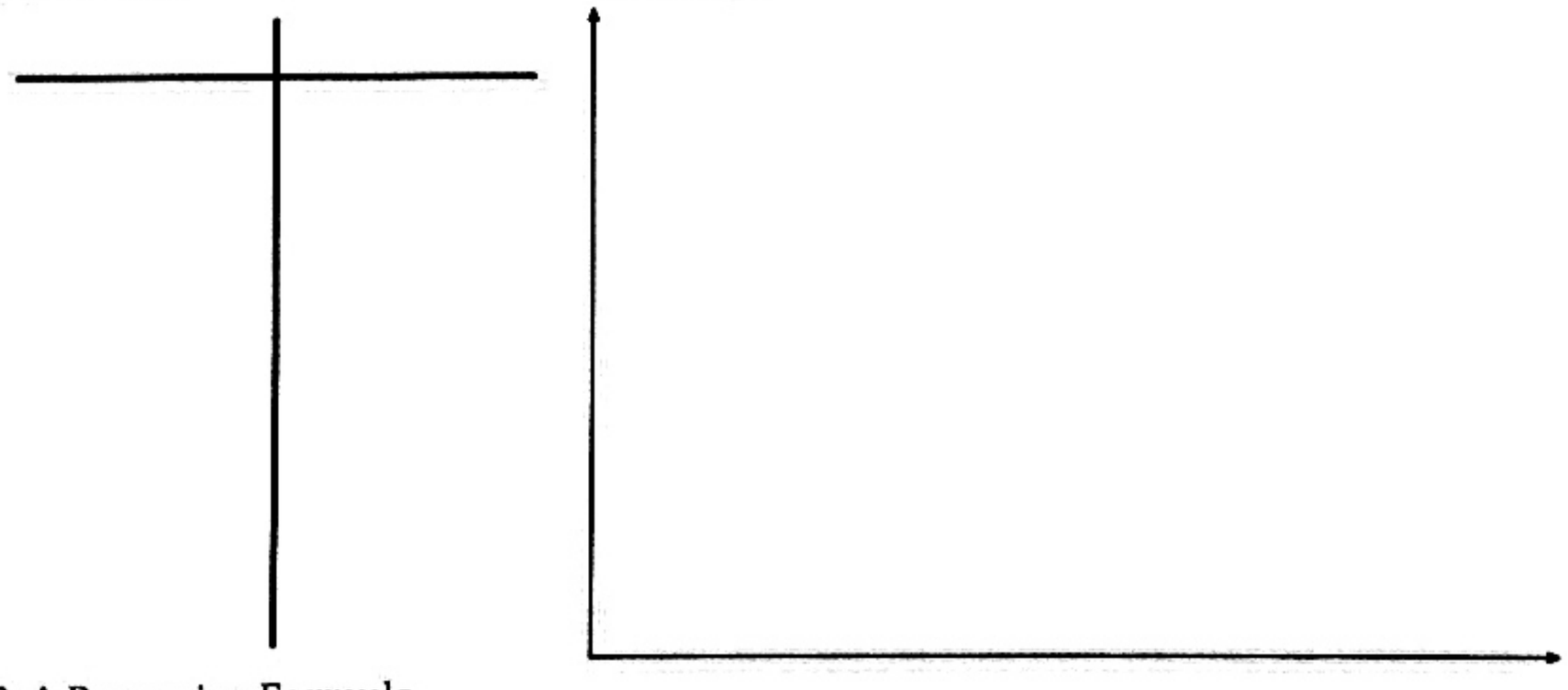


3. A Recursive Formula

4. An Explicit Formula

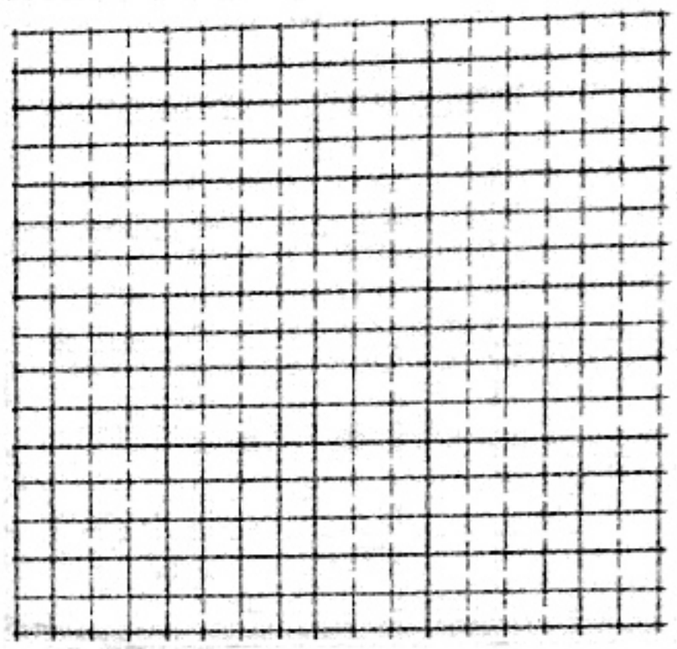
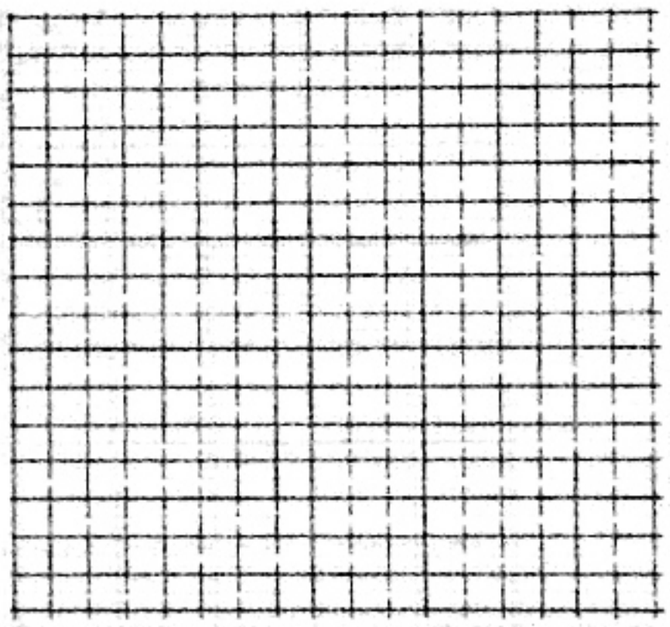
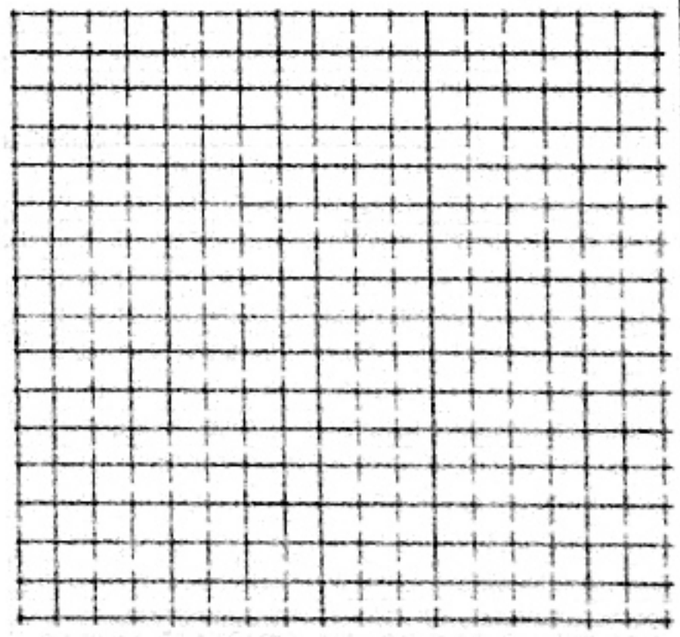
The table below fits with the chain letter problem for Bill Weight's Ice Cream shop.

Based on this table what is the recursive rule?

What is the explicit function for the table?

Days	People
1	8
2	80
3	800
4	8000
5	80000
6	800000
7	8,000,000

Determine if the given function is explicit or recursive. Then state whether it is an Arithmetic or Geometric Sequence. Finally, create four terms of the sequence and graph them.

1. $g(x)=3x+5$ Four terms of sequence:	Explicit or Recursive	Arithmetic or Geometric 
2. $h(1)=2$ $h(x)=(h(x-1))\cdot 3$ Four terms of sequence:	Explicit or Recursive	Arithmetic or Geometric 
3. $d(t)=3(t-1)$ Four terms of sequence:	Explicit or Recursive	Arithmetic or Geometric 

Name: _____

3.

x	f(x)
0	7
1	10
2	13
3	16

Sequence Type:

Explicit Function:

4.

x	f(x)
0	7
1	14
2	28
3	56

Sequence Type:

Explicit Function:

5.

t	f(t)
0	1
1	10
2	100
3	1000

Sequence Type:

Explicit Function:

6.

x	g(x)
0	12
1	8
2	4
3	0

Sequence Type:

Explicit Function:

7.

t	h(t)
0	5
1	10
2	20
3	40

Sequence Type:

Explicit Function:

8.

t	h(t)
0	5
1	10
2	15
3	20

Sequence Type:

Explicit Function:

9.

n	f(n)
0	4
1	9
2	14
3	19

Sequence Type:

Explicit Function:

10.

n	f(n)
0	4
1	12
2	36
3	108

Sequence Type:

Explicit Function:

11.

x	f(x)
0	6
1	12
2	24
3	48

Sequence Type:

Explicit Function: