

Math Models
Find the n^{th} term WS

Name: _____ Period: _____

I. Practice. Find the n^{th} term in each sequence. Write a complete sentence describing how you found the n^{th} term.

1.

Term Number	1	2	3	4	...	n	...
Sequence	3	5	7	9

Explanation: _____

2.

Term Number	1	2	3	4	...	n	...
Sequence	2	5	8	11

Explanation: _____

3.

Term Number	1	2	3	4	...	n	...
Sequence	2	6	10	14

Explanation: _____

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4.

Term Number	1	2	3	4	...	n	...
Sequence	1	6	11	16

Explanation: _____

5.

Term Number	1	2	3	4	...	n	...
Sequence	16	26	36	46

Explanation: _____

6.

Term Number	1	2	3	4	...	n	...
Sequence	5	13	21	29

Explanation: _____

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7.

Term Number	1	2	3	4	...	n	...
Sequence	1	4	9	16

Explanation: _____

8.

Term Number	1	2	3	4	...	n	...
Sequence	2	8	14	20

Explanation: _____

9.

Term Number	1	2	3	4	...	n	...
Sequence	1	0.1	0.01	0.001

Explanation: _____

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10.

Term Number	1	2	3	4	...	n	...
Sequence	2	5	10	17

Explanation: _____

II. Summary

11. Discuss your answers with the rest of your group. Make sure that everyone in your group understands how you found your answers. Summarize the group's observations here.

III. Analysis

12. Make up a sequence similar to #1-6. In complete sentences, describe what these patterns all have in common. How does your pattern share this commonality?
