

NAME: _____ QUARTER: _____

GR. & SEC - _____ DATE: _____

REMEDIAL CLASS ACTIVITY # 1
Generating Patterns in Sequences

DIRECTION: Read and understand the questions carefully.
 Check the box that corresponds to your answer.

1. Which of the following defines infinite sequence?

<input type="checkbox"/>	Days of the week	<input type="checkbox"/>	Every other day
<input type="checkbox"/>	Teenage life	<input type="checkbox"/>	First Fridays of July 2021

2. What are the next three terms of the sequence:
 1, 11, 22, 34, ...?

<input type="checkbox"/>	46, 60, 75	<input type="checkbox"/>	42, 54, 66
<input type="checkbox"/>	47, 61, 76	<input type="checkbox"/>	44, 60, 74

3. What is the 25th term of the sequence: $a_n = \frac{(-1)^n}{n^2}$?

<input type="checkbox"/>	$\frac{1}{625}$	<input type="checkbox"/>	$\frac{25}{625}$
<input type="checkbox"/>	$-\frac{1}{625}$	<input type="checkbox"/>	$-\frac{25}{625}$

4. What is the 11th term in the sequence:
 -1, 4, -9, 16, -25, ...?

<input type="checkbox"/>	100	<input type="checkbox"/>	121
<input type="checkbox"/>	-100	<input type="checkbox"/>	-121

5. Find the first four terms of the sequence: $a_n = 3n + 2$.

<input type="checkbox"/>	5, 7, 11, 14	<input type="checkbox"/>	5, 8, 11, 14
<input type="checkbox"/>	5, 8, 11, 15	<input type="checkbox"/>	5, 9, 13, 17

6. What is the 8th term in the sequence:
 9, 4, -1, -6, -11, ...?

<input type="checkbox"/>	-21	<input type="checkbox"/>	-31
<input type="checkbox"/>	-26	<input type="checkbox"/>	-36

7. Which of the following patterns shows finite sequence?

<input type="checkbox"/>	6, 12, 18, 24, 30, ... <input type="checkbox"/>	<input type="checkbox"/>	First 20 whole numbers
<input type="checkbox"/>	Multiples of 6	<input type="checkbox"/>	100, 50, 25, 12.5, ...

8. Write the first four terms of the sequence: $a_n = n^2 - 1$?

<input type="checkbox"/>	0, 3, 8, 15	<input type="checkbox"/>	1, 5, 10, 16
<input type="checkbox"/>	1, 3, 5, 7	<input type="checkbox"/>	0, 2, 7, 12

9. Madison has the number patterns (5, 3, 8, 6, 11) for a homework problem. She says that the number pattern is alternately adding 5 and subtracting 2. Did Madison correctly describe the pattern?

<input type="checkbox"/>	No, the pattern is alternately adding 5 and subtracting 2.
<input type="checkbox"/>	No, the pattern is alternately subtracting 2 and adding 5.
<input type="checkbox"/>	No, the pattern is alternately subtracting 3 and adding 4.
<input type="checkbox"/>	Yes, Madison's description of the pattern is correct.

10. Which of the following shows a pattern?

<input type="checkbox"/>	3, 2, 3, 2, 3, 2	<input type="checkbox"/>	A, G, M, T, O, 9
<input type="checkbox"/>	5, 7, 2, T, 6, Y	<input type="checkbox"/>	Smooth, long, wall, sing

REFLECTION:

What have you learned in this activity?