



Name:	Date:
Grade & Section:	Score:

⇒ **FIRM UP**

Activity 1: FILLED ME UP!!!

In introducing how sequences and series works, let us now familiarize ourselves by classifying whether the given is a sequence or a series. Write the **letter** of the correct answer in the box provided. (You may try to use pencil first, then ballpen in finalizing)

SEQUENCE	SERIES

A. 2, 4, 6, 8, 10

B. $3 + 6 + 9 + 12 = 30$

C. The sum of all the elements is 90.

D. The elements of a set are 1, 2, 4, 8, 16.

Activity 2: COMPLETE ME!!!

Based from your previous knowledge and some examples below. Complete the table by identifying the first and last terms, and determining whether the given is a finite or infinite sequence.

NO.	SEQUENCE	FIRST TERM	LAST TERM	INFINITE OR FINITE
1	..., -64, -49, -36, -25, -16	Extended	_____	_____
2	1, 2, 3, 4, 5	_____	5	_____
3	-9, -2, 5, 12, 19, ...	_____	_____	Infinite
4	-2, 4, -8, ..., -2048, 4096	-2	_____	_____
5	38, 33, 28, 23, 18, 13	_____	13	_____

Activity 3: MISSING U!!!

After finding the difference between sequences and series, it is your turn to generate patterns and let yourself find the missing number after the given sequences. Filled out your answer in the box provided.

- 21, 22, 43, 67,
- 16, 8, 4, 2, 1,
- 13, 25, 47, 69,
- 2, 3, 5, 7, 11,
- $\frac{1}{2}, \frac{3}{5}, \frac{5}{8}, \frac{7}{11}, \frac{\quad}{\quad}, \frac{\quad}{\quad}$

Congrats! I hope you already know how to generate patterns from these activities!



In finding the next term, we must first know the **pattern** of the set of numbers given.