LEARNING AS ONE NATION

Expanded Project

L E A R N I N G A C T I V I T Y

Math 10_8

Name: _____ **Grade/Score:** _____

Year and Section: _____ **Date:** _____

Subject *(Check or choose from below.)*_____

- ☐ Religion/Values Education
- ☐ Natural Sciences
- ☐ Araling Panlipunan
- ☐ Filipino
- ☐ English
- ☐ Math
- ☐ TLE / ICT
- ☐ MAPEH

Type of Activity *(Check or choose from below.)*_____

- ☐ Concept Notes
- ☐ Skills: Exercise / Drill
- ☐ Laboratory Report
- ☐ Illustration
- ☐ Formal Theme
- ☐ Informal Theme
- ☐ Others: _____

Activity Title: The Difference between Geometric and Arithmetic Sequences

Learning Targets: To differentiate between geometric and arithmetic sequences.

References: *(Author, Title, Pages)*
M. J. Acelado, et al., Algebra, pp. 413-417
V. G. Baja, CVIF Learning Activities

Which among the following sequences are arithmetic sequences? Which are geometric sequences? Write your answers on the blanks.

a) 4, 10, 16, 22, 28,... _____

b) 4, 16, 64, 256,... _____

c) 4, 24, 44, 64, 84,... _____

d) 4, 40, 400,... _____

Exercises: Answer each question in one or two sentences only.

1. What is the difference between an arithmetic sequence and a geometric sequence?
2. Suppose you are asked to determine the 100th term of a geometric sequence. Is there a solution that is shorter than multiplying each of the 99 terms by the common ratio? Why?