NAME _____ QUARTER 1

GRADE & SECTION _____ DATE _____

# Activity: Arithmetic Series

Complete the information to find the sum of the given arithmetic sequence.

1) Find the sum of the first 14 terms of the arithmetic sequence

$$15 + 21 + 27 + 33 + \cdots$$

Based on the given, which formula is more appropriate to use?

$S_n = \frac{n}{2}(a_1 + a_n)$ $S_n = \frac{n}{2}(2a_1 + (n-1)d)$

$a_1 =$ _____ $n =$ _____ $d =$ _____

**Final Answer: The sum is** _____

2) Find the sum of the arithmetic sequence that starts with $-9$ and ends with 20th term of $-47$.

Based on the given, which formula is more appropriate to use?

$S_n = \frac{n}{2}(a_1 + a_n)$ $S_n = \frac{n}{2}(2a_1 + (n-1)d)$

$a_1 =$ _____ $a_n =$ _____ $n =$ _____

**Final Answer: The sum is** _____

3) What is the sum of integers from 11 to 40?

Based on the given, which formula is more appropriate to use?

$S_n = \frac{n}{2}(a_1 + a_n)$ $S_n = \frac{n}{2}(2a_1 + (n-1)d)$

$a_1 =$ _____ $a_n =$ _____ $n =$ _____

**Final Answer: The sum is** _____

This is your ____ attempt.
How well did you do?

 Need help!  Just OK!  Splendid

I LEARNED THAT...

_____

_____

Prepared by: QUEENIE PEARL E. DOMASIG

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