NAME: _____ QUARTER: _____

GR. & SEC - _____ DATE: _____

REMEDIAL CLASS ACTIVITY # 2
Arithmetic Sequence

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

1. Which of the following is the common difference in the sequence: 0, 4, 8, 12, ... ?

- ☐ 1
- ☐ 3
- ☐ 2
- ☐ 4

2. Which of the following is the common difference of the sequence: 3, -2, -7, ... ?

- ☐ 1
- ☐ 5
- ☐ -5
- ☐ -1

3. Which is the missing term in this arithmetic sequence: 23, 18, 13, 8, 3, _____, -7, -12, ... ?

- ☐ -2
- ☐ -5
- ☐ 2
- ☐ 5

4. Which of the following is the common difference in the sequence: -7, -4, -1, 2, 5, ... ?

- ☐ -3
- ☐ 4
- ☐ 3
- ☐ -4

5. Which of the following is **NOT** an arithmetic sequence?

- ☐ -5, -2, 1, 4
- ☐ 1, 4, 7, 10
- ☐ 11, 14, 17, 20
- ☐ 3, 7, 12, 18

6. Find the nth term of the arithmetic sequence given the following: $a_1 = 5$; $d = 5$; and $n = 25$.

- ☐ $a_{25} = 115$
- ☐ $a_{25} = 120$
- ☐ $a_{25} = 125$
- ☐ $a_{25} = 130$

7. Find the 20^{th} term of the arithmetic sequence: 5, 9, 13, 17, 21, ...

- ☐ 81
- ☐ 82
- ☐ 80
- ☐ 87

8. What is the arithmetic mean between 15 and 40?

- ☐ 28.5
- ☐ 26
- ☐ 29
- ☐ 27.5

9. Which of the following is a formula for arithmetic series?

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

10. Which of the following describes an arithmetic sequence?

- ☐ A sequence in which a term is formed by adding any number to the preceding term.
- ☐ A sequence in which there is an equal difference between consecutive terms.
- ☐ A sequence in which a term minus the preceding term is always positive.
- ☐ A sequence in which terms follows a pattern.

REFLECTION:

What have you learned in this activity?

_____

_____

_____

_____

LIVEWORKSHEETS