NAME _____ QUARTER 1

GRADE & SECTION _____ DATE _____

# Activity: Arithmetic Means

Find the arithmetic means of the following sequence.

Recall that: $average = \frac{a+b}{2}$ and $\boldsymbol{d = \frac{a_n - a_k}{n-k}}$

**1)** What is the arithmetic mean between 57 and 35? ____

**2)** What is the arithmetic mean between -24 and 60? ____

**3)** Insert four arithmetic means between 80 and 115.

*Solution:*

Take $a_n = 115$, , $n =$ ____ $d = \frac{115 - ____}{____ - ____}$

and $a_k =$ ____ , $k =$ ____

$d = \frac{____}{____}$

$d =$ ____

Therefore, to complete the sequence:

| 80 | | | | | 115 |
|---|---|---|---|---|---|
| $a_1$ | $a_2$ | $a_3$ | $a_4$ | $a_5$ | $a_6$ |

**4)** Find the missing term of the sequence ___, -10, ___, ___, ___, 74.

*Solution:*

Take $a_n = 74$, , $n =$ ____ $d = \frac{74 - ____}{____ - ____}$

and $a_k =$ ____ , $k =$ ____

$d = \frac{____}{____}$

$d =$ ____

Therefore, to complete the sequence:

| | –10 | | | | 74 |
|---|---|---|---|---|---|
| $a_1$ | $a_2$ | $a_3$ | $a_4$ | $a_5$ | $a_6$ |

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

 Need help!  Just OK!  Splendid

I LEARNED THAT...

_____

_____

Prepared by: QUEENIE PEARL E. DOMASIG

LIVEWORKSHEETS