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...

_____

_____

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LIVEWORKSHEETS