Name:

Arithmetic Sequences and Series Exit Quiz

Multiple choices

c.) 31

- The 16*th* term of the arithmetic sequence whose general term is $a_n = 6n 12$ is: 1. a.) 16 b.) 12 c.) 82 d.) 84 The number of terms in the arithmetic series $6 + 1 - 4 - 9 \dots \dots - 239$ is: 2. a.) 50 b.) 45 c.) 25 d.) 20 How many terms of the arithmetic sequence 1, 3, 5, 7 will give a sum of 961? 3. a.) 30 b.) 32
- 4. A man earned \$3.500 the first year he worked. If he received a raise of \$500 at the end of each year, what was his salary during the 15*th* year?

d.) 43

a.) \$105.000 b.) \$135.500

c.) \$100.500 d.) \$100.000

_____ Period: _____ Date: _____

Name: ______Period: ______Date: Arithmetic Sequences and Series Exit Quiz

5. Fill in the gaps in this arithmetic sequence: -3, ____, ____, ____, ____, 21

_____ Period: _____ Date: _____

Arithmetic Sequences and Series Exit Quiz **ANSWERS**

Multiple choices

The 16th term of the arithmetic sequence whose general term is $a_n = 6n - 12$ is: 1.

a.) 16	b.) 12

- c.) 82 d.) 84
- The number of terms in the arithmetic series $6 + 1 4 9 \dots \dots \dots 239$ is: 2.

a.) <mark>50</mark>	b.) 45
c.) 25	d.) 20

How many terms of the arithmetic sequence $1, 3, 5, 7 \dots \dots \dots$ will give a sum of ? 3.

a.) 30	b.) 32

- c.) <mark>31</mark> d.) 43
- A man earned \$3.500 the first year he worked. If he received a raise of \$500 at the end of each year, 4. what was his salary during the 15th year?

a.) <mark>\$105.000</mark>	b.) \$135.500	
c.) \$100.500	d.) \$100.000	

Arithmetic Sequences and Series Exit Quiz

Fill in the gaps in this arithmetic sequence: $-3, ___, ___, ___, __, 21$ 5.

5 means -3, ____, ____, ____, 21 $a_1 = -3$ $a_7 = 21$ $a_n = a_1 + (7-1)d$ $a_7 = a_1 + (7-1)d$ 21 = -3 + 6d21 + 3 = -3 + 3 + 6d24 = 6dd = 4 $a_2 = a_1 + d = -3 + 4 = 1$ $a_3 = a_2 + d = 1 + 4 = 5$ $a_4 = a_3 + d = 5 + 4 = 9$ $a_5 = a_4 + d = 9 + 4 = 13$ $a_6 = a_5 + d = 13 + 4 = 17$

-3, **1**, **5**, **9**, **13**, **17**, 36