$\qquad$
$\qquad$ Date: $\qquad$

## Arithmetic Sequences and Series Exit Quiz

Multiple choices

1. The $\mathbf{1 6 t h}$ term of the arithmetic sequence whose general term is $a_{n}=\mathbf{6 n - 1 2}$ is:
a.) 16
b.) 12
c.) 82
d.) 84
2. The number of terms in the arithmetic series $6+1$-4-9 $\qquad$ -239 is:
a.) $\mathbf{5 0}$
b.) 45
c.) 25
d.) 20
3. How many terms of the arithmetic sequence $1,3,5,7 \ldots \ldots \ldots$.......will give a sum of 961 ?
a.) $\mathbf{3 0}$
b.) 32
c.) 31
d.) 43
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?
a.) $\$ 105.000$
b.) $\$ 135.500$
c.) $\$ \mathbf{1 0 0 . 5 0 0}$
d.) $\$ 100.000$
$\qquad$ Date: $\qquad$

## Arithmetic Sequences and Series Exit Quiz

5. Fill in the gaps in this arithmetic sequence: -3 , 21
$\qquad$ Period: $\qquad$ Date: $\qquad$

## Arithmetic Sequences and Series Exit Quiz

ANSWERS

Multiple choices

1. The 16 th term of the arithmetic sequence whose general term is $a_{n}=6 n-12$ is:
a.) 16
b.) $\mathbf{1 2}$
c.) 82
d.) 84
2. The number of terms in the arithmetic series $6+1-4-9$ $\qquad$ -239 is:
a.) 50
b.) 45
c.) 25
d.) $\mathbf{2 0}$
3. How many terms of the arithmetic sequence $1,3,5,7$ $\qquad$ ..will give a sum of ?
a.) 30
b.) $\mathbf{3 2}$
c.) 31
d.) 43
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?
a.) $\$ 105.000$
b.) $\$ 135.500$
c.) $\$ 100.500$
d.) $\$ 100.000$
$\qquad$
$\qquad$

## Arithmetic Sequences and Series Exit Quiz

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

$$
\begin{aligned}
& 5 \text { means } \\
& a_{1}=-3 \quad a_{7}=21 \\
& a_{n}=a_{1}+(7-1) d \\
& a_{7}=a_{1}+(7-1) d \\
& 21=-3+6 d \\
& 21+3=-3+3+6 d \\
& 24=6 d \\
& d=4 \\
& a_{2}=a_{1}+d=-3+4=1 \\
& a_{3}=a_{2}+d=1+4=5 \\
& a_{4}=a_{3}+d=5+4=9 \\
& a_{5}=a_{4}+d=9+4=13 \\
& a_{6}=a_{5}+d=13+4=17 \\
& -3,1,5,9,13,17,36
\end{aligned}
$$

