Name:	Period:	Date:	
<b>Arithmetic Sequences and</b>	d Series Bell work		

1	Complete	the f	fallowin	g statement.
1.	Complete	e tne i	rollowin	g statement.

a.	An arithmetic sequence is an	in which the difference between consecutive terms is	
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#### 2. Write T for true or F for false

- a. The recursive formula for the general term of an arithmetic sequence is  $a_n = a_{n-1} + d$
- b. The sum of the first n terms of the arithmetic series is called the nth partial sum and is denotes  $a_n$ .
- c. The terms between any two nonconsecutive terms of an arithmetic sequence are called arithmetic means.

## **Multiple Choices**

3. The formula for the nth term of the arithmetic sequence 2, 4, 6, 8 ... ... ... ... is:

b. 
$$2n+1$$

c. 
$$2n-1$$

4. The next term of the sequence 1, 9, 17, 25 ... ... ... is:

5. The next three terms of the sequence -1, 5, 11, 17 ... ... are:

Name:	Period:	Date:

# **Arithmetic Sequences and Series Bell Work**

### **ANSWERS**

- 1. Complete the following statement.
- a. An arithmetic sequence is an ordered list of terms in which the difference between consecutive terms is constant.
- b. The explicit formula for the general term of an arithmetic sequence is  $a_n = a_1 + (n-1)d$ .
- c. The difference between consecutive terms of an arithmetic sequences is called the common difference.
- 2. Write T for true or F for false
- a. The recursive formula for the general term of an arithmetic sequence is  $a_n=a_{n-1}+d$
- •
- b. The sum of the first n terms of the arithmetic series is called the nth partial sum and is denotes  $a_n$ .
- F
- c. The terms between any two nonconsecutive terms of an arithmetic sequence are called arithmetic means.
- Т

## **Multiple Choices**

- 3. The formula for the nth term of the arithmetic sequence 2, 4, 6, 8 ... ... ... ... is:
- a. 2n
- b. 2n + 1
- c. 2n-1
- 4. The next term of the sequence 1, 9, 17, 25 ... ... ... is:
- a. 35
- b. 33
- c. 37
- 5. The next three terms of the sequence -1, 5, 11, 17 ... ... ... are:
- a. 23,29,35
- b. 22, 28, 34
- c. 23,31,39