1.	Find the 21st term of
	4,9,14,19,

2. Find the 3<sup>rd</sup> term in an arithmetic sequence if 
$$a_{10} = 41$$
;  $a_{15} = 61$ 

5. Find n for the sequence which has 
$$a_n = 618$$
;  $a_1 = 18$ ;  $d = 6$ 

8. 24,32,40,48,...find 
$$a_{507}$$

3. Find 
$$a_{21}$$
 if  $a_7 = -19$ ; and  $a_{10} = -28$ 

6. Find 
$$a_{1000}$$

nth term of the sequence -6,-1,4,9,...

Find a formula for the

17,7,-3,...

10. 100,98,96,... find  $a_{25}$ 

14. 14. Find the 300<sup>th</sup> term of the sequence2,5,8,11,...

11. Find the 79<sup>th</sup> term for the sequence that has  $a_1 = 231$  and d=-9

15. How many terms are in the sequence 25,33,41,...,145?

12. Find the  $40^{th}$  term of an arithmetic sequence that has  $a_8 = 60$ ;  $a_{12} = 48$ 

## **ANSWERS:**

1. 104 2. 13 3. -61 4. 243

5. 101 6. -9973 7. 54

8. 4072

9.  $a_n = -6 + 5(n-1)$ 

10. 52 11. -471 12. -36

13.  $a_n = 30 - 10(n-1)$ 

14. 899 15.16

13. Find a formula for the nth term of the sequence 30,20,10,0,...