

Name: _____ Date: _____

Probability & Statistics Arithmetic and Geometric Sequence Worksheet

Find the n th term of each ARITHMETIC sequence:

1. $a_1 = -5$
 $d = 4$
 $n = 9$

2. $a_1 = 3$
 $d = -4$
 $n = 6$

3. $a_1 = 4$
 $d = 6$
 $n = 14$

4. a_{15} for $a_1 = 5$ and $d = -3$

5. a_{15} for 4, 10, 16, 22, ...

Complete the statement regarding the arithmetic sequence:

6. 97 is the _____th term of -3, 1, 5, 9, ...

7. -28 is the _____th term of 7, 2, -3, ...

Find the missing terms in each arithmetic sequence:

8. _____, -10, _____, _____, _____, 14

9. 12, _____, 8, _____, 4, _____

10. _____, _____, 42, _____, 60

Find the n th term of each GEOMETRIC sequence described:

11. $a_1 = -10$
 $r = 4$
 $n = 2$

15. $a_1 = 2$
 $r = 2$
 $n = 5$

12. $a_3 = 9$
 $r = -3$
 $n = 7$

16. $a_1 = 5$
 $r = 3$
 $n = 4$

13. $a_4 = -54$
 $r = -3$
 $n = 6$

14. $a_1 = -4$
 $r = -2$
 $n = 6$