

READY, SET, GO!

Name

Period

Date

## READY

Topic: Comparing arithmetic and geometric sequences

1. How are arithmetic and geometric sequences similar?

2. How are they different?

## SET

Topic: Finding missing terms in an Arithmetic sequence

Each of the tables below represents an arithmetic sequence. Find the missing terms in the sequence, showing your method.

3. Table 1

$x$	1	2	3
$y$	3		12

4. Table 2

$x$	$y$
1	2
2	
3	
4	26

5. Table 3

$x$	$y$
1	24
2	
3	6
4	

6. Table 4

$x$	$y$
1	16
2	
3	
4	4
5	

**GO**

Topic: Sequences

**Determine the recursive and explicit equations for each. (if the sequence is not arithmetic or geometric, identify it as neither and don't write the equations).**

7. 5, 9, 13, 17,... This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

8. 60, 30, 0, -30 ,... This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

9. 60, 30, 15,  $\frac{15}{2}$ , ,... This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

10.



(The number of black tiles above) This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_

11.. 4, 7, 12, 19, ,... This sequence is: Arithmetic , Geometric , Neither

Recursive Equation: \_\_\_\_\_ Explicit Equation: \_\_\_\_\_