# Ready, Set, Go!



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# Ready

Topic: Comparing arithmetic and geometric sequences

- 1. How are arithmetic and geometric sequences similar?
- 2. How are they different?

#### Set

Topic: Arithmetic sequences

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
у	3		12

## 4. Table 2

X	У
1	2
2	
3	
4	26

5. Table 3

X	У
1	24
2	
3	6
4	

6. Table 4

X	У
1	16
2	
3	
4	4
5	

## Go

Topic: Sequences

Then determine the recursive and explicit equations for each (if the sequence is not arithmetic or geometric, try your best).

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: \_\_\_\_\_

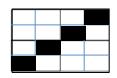
9. 60, 30, 15,  $\frac{15}{3}$ , ... This sequence is: Arithmetic, Geometric, Neither

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: \_\_\_\_\_

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