



## Comparing Arithmetic and Geometric

Name: \_\_\_\_\_

Date: \_\_\_\_\_



For each sequence, state if it is arithmetic, geometric, or neither.

1) 4,8,16,32, ...

2)  $a_n = 5 - 3n$

3) 4,7,9,10,11, ...

4) 1,4,7,10,13, ...

5) 1,3,6,10,15, ...

6)  $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$

7)  $a_n = -4 \cdot (-3)^{n-1}$

8)  $a_n = \frac{n}{2^n}$

9) -40, -35, -30, -25, ...

10) 1,3,9,27,81, ...

11)  $a_n = a_{n-1} + 8, a_1 = 5$

12) 0,3,8,15,24, ...

13) -34, -32, -30, -28, -26, ...

14) -4,12, -36,108, -324, ...



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## Answers



For each sequence, state if it is arithmetic, geometric, or neither.

1) 4,8,16,32, ...  
geometric

2)  $a_n = 5 - 3n$   
arithmetic

3) 4,7,9,10,11, ...  
neither

4) 1,4,7,10,13, ...  
arithmetic

5) 1,3,6,10,15, ...  
neither

6)  $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$   
geometric

7)  $a_n = -4 \cdot (-3)^{n-1}$   
geometric

8)  $a_n = \frac{n}{2^n}$   
neither

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