Nan	ne Date: _	Period:
1.	Sequences #2 Assignment 2, 4, 6, 8,	ent
	a. Is this sequence arithmetic or geometric?b. Find the next two terms in the sequence:	Tf as what is it?
	c. Does this sequence have a common differenced. Does this sequence have a constant ratio?e. Write a recursive formula for this sequence:	If so, what is it? If so, what is it?
2.	2, 4, 8, 16,a. Is this sequence arithmetic or geometric?b. Find the next two terms in the sequence:	
	c. Does this sequence have a common differenced. Does this sequence have a constant ratio?e. Write a recursive formula for this sequence:	If so, what is it? If so, what is it?
3.	20, 10, 5, 2.5, a. Is this sequence arithmetic or geometric?	
	 b. Find the next two terms in the sequence: c. Does this sequence have a common difference d. Does this sequence have a constant ratio? e. Write a recursive formula for this sequence: 	If so, what is it? If so, what is it?
4.	2, 5, 8, 11,a. Is this sequence arithmetic or geometric?b. Find the next two terms in the sequence:	
	 c. Does this sequence have a common difference d. Does this sequence have a constant ratio? e. Write a recursive formula for this sequence: 	If so, what is it? If so, what is it?
5.	30, 24, 18, 12, a. Is this sequence arithmetic or geometric? b. Find the next two terms in the sequence:	
	 c. Does this sequence have a common difference d. Does this sequence have a constant ratio? e. Write a recursive formula for this sequence: 	If so, what is it? If so, what is it?

6. 3, 1.5, 0, -1.5, -3, . . .

- a. Is this sequence arithmetic or geometric?
- b. Find the next two terms in the sequence:
- c. Does this sequence have a common difference?

d. Does this sequence have a constant ratio?

e. Write a recursive formula for this sequence:

If so, what is it? If so, what is it?

7. 2, 6, 18, 54, . . .

- a. Is this sequence arithmetic or geometric?
- b. Find the next two terms in the sequence:
- c. Does this sequence have a common difference?

d. Does this sequence have a constant ratio?

e. Write a recursive formula for this sequence:

If so, what is it?

If so, what is it?

8. How can you tell if a sequence is arithmetic or if it is geometric?

Solve the following equations for the unknown variable.

9.
$$3(x-1) = 2(x+3)$$

10.
$$7(x+20) = x+5$$

11.
$$9(x-2) = 3x + 3$$

12.
$$2\left(a-\frac{1}{3}\right)=\frac{2}{5}\left(a+\frac{2}{3}\right)$$