Name:UNIT 5		Date: LESSON 1	
	Lets Think! What would come next?  Do Now: Find the pattern and fill in the mis	ssing numbers.	
	a) 1,3,5,7,	b) 4,8,12,16,,	
	AIM: ARITHMI	ETIC SEQUENCE	
Α_	is an ordered set of number	pers. Each number in the sequence is called a	
1. Identify a pattern in the sequence and then find the missing terms:		2. Identify a pattern in the sequence and then find the missing terms:	
	3, 6, 9, 12, 15, 18,,,,	48, 42, 36, 30,,,	
Rı	ıle:	Rule:	
3.	The table below shows Eva's monthly DVD rental from Netflix.	4. As shown in the table, the monthly rent of an apartment depends on the number of bedrooms.	
a)	How many DVD's per month does Eva rent from Netflix?    Eva's DVDs   Month   DVDs   1   3	a) What is the cost to rent each additional bedroom?  Bedrooms Rent  1 \$550	
b)	After five months how many DVD's did Eva rent?  2 6 3 9 4 12	b) What will be the cost of a four bedroom apartment?  2 \$625 3 \$700	
c)	Write the table as a sequence.	c) Write the table as a sequence.	
In a	an	, the amount by which the terms change each time is	
called the		The common difference is represented by	
* I	n an arithmetic sequence, you are either	or	

5. Consider	r a sequence th	Term Number "n"	Term
a. What	is the first term	?	
b. What	is the common	difference?	
		that follows -7, -9, -11, -13  Term Number	Term
a. W	hat is the first t	erm? "n"	
b. W	That is the comm	non difference?	
7. Consider	r a sequence th	nat follows 3, 7, 11, 15, 19	
a) What is the	first term?	b) What is the common difference?	
c) Fill in table		d) Graph the table	
		20	
Term Number "n"	Term		

What would the equation of this graph be?.... Hint lets use our calculator!

10

5

\* Arithmetic Sequences follow a \_\_\_\_\_\_ pattern!

## PRACTICE PROBLEMS

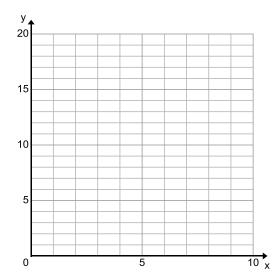
- 8. Is the following sequence arithmetic: 2, 5, 7, 15, 16, 20... Explain your answer.
- 9. Consider a sequence that follows: **18, 14, 10, 6, 2......**
- a) What is the first term?

b) What is the common difference?

c) Fill in table.

Term Number "n"	Term

d) Graph the table



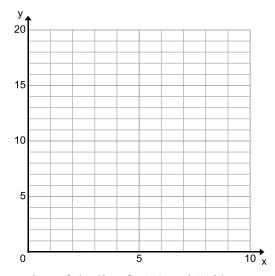
- 10. Consider a sequence that follows: 3, 9, 15, 21......
- a) What is the first term?

b) What is the common difference?

c) Fill in table.

Term Number	Term

d) Graph the table



11. Using your calculator, go back and find the equation of the line for #9 and #10!