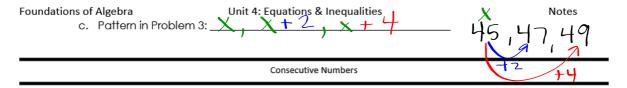
Foundations of Algebra		Unit 4: Equations & Inequaliti	Unit 4: Equations & Inequalities						
Equatio	on:								
Day 7 – Creating Equations from a Context (Complex)									
	Consider the following numb	102, 103, 104 2 30, 31	, 32 99, 100, 101						
a.	What patterns do you notice	;; itural, integers,	consecrative						
b.		er compare to the first number							
c.	How does the third number of +2	compare to the first number?							
2.	Consider the following numb	pers: 95, 100, 102 50, 52	2, 54 78, 80, 82						
a.	What patterns do you notice	,, 12 U CONSECUT	WE						
b.	,	er compare to the first number							
C.	How does the third number of	compare to the first number?							
	$\smile_{12}$	103, 105, 107 29, 31,	, 33 157, 159, 161						
a.	What patterns do you notice ODD CONS	ECUTIVE, +2							
b.		er compare to the first number	ŝ						
C.	How does the third number of			_					
Numbers that follow each other in order, without gaps, are called CONSECUTIVE.									
4.		bu didn't know the first number,	-	utive:					
a. Pattern in Problem 1: $\times$ , $\times$ +1, $\times$ +2 $\times$ +4 b. Pattern in Problem 2: $\times$ , $\times$ +2 , $\times$ +4									
b. Pattern in Problem 2:									
		· -	32,3	7,06					



Consecutive Numbers Chart										
_	Type of Consecutive Examples			Expressions for Terms First Second Third						
	Consecutive Numbers	→ 4, 5, 6 27, 28, 29	$\left  \begin{array}{c} x \end{array} \right $	(x+1) $(x+2)$						
( ]	Consecutive Even Numbers	8, 10, 12 62, 64, 66	x	x + 2	SAME					
	Consecutive Odd Numbers	23, 25, 27 89, 91, 93	x	x + 2	SKIND					
1. The sum of three consecutive numbers (5.72). What is the smallest of these numbers?										
1. The sum of th	ree consecutive numbers (572). Who	at is the <u>smallest of these n</u>		2.1.6	$\alpha = 30$					
Variables:	X		<>+(X)+(X)	()+ <u> </u> +(X)+	2=72					
Equation: $\frac{x + x + 1 + x + 2}{23} = 72$ $\frac{3x + 3 + 72}{3x = 69}$ $\frac{3x + 3 + 72}{3x = 69}$										
	insecutive odd integers whose sum	1(261)		>	(= <u>2</u> 3					
Variables:		$\circ$ . I								
Equation: $X + X+2 + X+4 = 26$										
$\otimes + \otimes + 2 + \times + 4 = 261$										
3x + 6 + 261										
85+8	37+89=261	$\frac{3\times}{3}=2$	255 3	- 7 (	20					
	261 = 261	X-	85,	8 1, 8	5 <sup>7</sup>					