Name:UNIT 6	Date:
Do Now:	LESSON 6
a. Graph $\{x \mid -2 < x \le 5\}$ on a number line.	b. Graph $\{x \mid x > 3\}$ on a number line.
AIM: EXPRESSING SOLUTIONS IN SET I	BUILDER NOTATION & INTERVAL NOTATION
•: a collection of distinct objects of	or elements
•: a list of elements in a set	LESSON 6    x   -2 < x \leq 5 \rightarrow \text{on a number line.} \text{b. Graph \{x   x > 3\} on a number line.}    EXPRESSING SOLUTIONS IN SET BUILDER NOTATION & INTERVAL NOTATION
1. Write a roster for the set for the following:	
a. whole #'s less than 5	b. integers from -3 to 2 inclusively
of a specific set that possess a specific property  "x is an element of all	real numbers"
2. Write set builder notation for the following.	
a) Real #'s greater than 0	b) Real #'s less than or equal to 5
c) Real #'s from 8 to 20 inclusive	d) Real #'s between 4 to 20

	Open Interval		Closed Interval	
	endpoints not inclu	ided	endpoints included	
	circles are open		circles are closed	(
	Use parentheses		Use brackets	
	Infinity always has	parenthesis	T 1: TO 47	
	Euc	mmle: (2.6)	Example: [2,6]	
	1 2 3	mple: (2,6) 4 5 5 7	1 2 3 4 5 6 7	
	Now let's go back to #2 and	d write the examples in I	nterval Notation!	
	3. Write the following u			
1)	x is greater than or equal to -5 and less than 2.	b) $-3 < x \le 12$	c) $-\infty < x < 12$ d) x is greater than 0 and less than or equal to 3	
Ξx	press the solutions in set-	ouilder notation for pa	art (a) and express the solutions in interval notation for part	(b
_	<del>-</del>	<del></del>	5. 24 26 28 30 32 34 36 38 40 42 44 46 48 60 52 54	
•	Set-builder notation			
,			a) Set-builder notation	
)	Interval notation		b) Interval notation	(
· )	-3 0 4 Set-builder notation	<b>&gt;</b>	72-1 0 1 2 3 4 5 6 a) Set-builder notation	<u></u> .
)	Interval notation		b) Interval notation	
•	-5-4-3-2-1 0 1 2 3 4 5 Set-builder notation		93 -2 -1 0 1 2 3 4 5 6 a) Set-builder notation	
	Interval notation		b) Interval notation	(