Algebra IIa

1-1 Day 2
The Real Numbers
and
Set Notation

Number Systems - A trip through history.

Symbol	Name	Description	
N	Natural Numbers	£1,2,3,3	
	Whole Numbers	£0,1,2,3,}	
Z	Integers	£2,1,0,1,2,}	
Q	Rational Numbers	Any number that can be written as a fraction	
	Irrational Numbers	Cait be written as a fraction. 17.12, all non-terminating, non repositi	g decinal
R	Real numbers	all the above.	

Draw a pictoral representation of the Real Numbers -

Symbols of order -

Definitions

Opposite - regative

Why do we need absolute value? distance

Set Notations:

1) Roster Method

Find the set of odd Natural Numbers less than 14.

Set Notations:

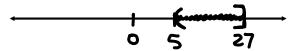
2) Set-builder Notation

Find the set of Real numbers larger than 5 but less than or equal to 27.

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3) Interval Notation - number line:

Find the set of Real numbers larger than 5 but less than or equal to 27.



3) Interval Notation - No number line. Find the set of Real numbers larger than 5 but less than or equal to 27.



