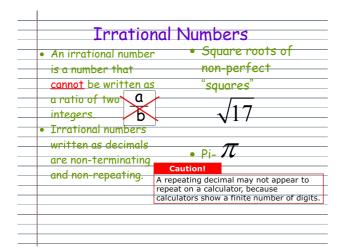
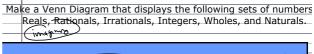


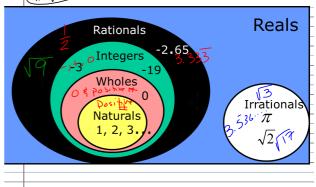
## Rational Vs. Irrational objective: Decompose the real # system into parts to see the difference between sets of #'s. -Identify subsets of the real # system - Sort rational & irrational #'s

vocabulary	
Set	A collection of objects.
Set Notation	{ }
Natural numbers	Counting numbers {1,2,3,}
Whole Numbers	Natural numbers and 0. {0,1,2,3,}
Integers	Positive and negative natural numbers and zero {2, -1, 0, 1, 2, 3,
Rational Number	A real number that can be expressed as a ratio of integers (fraction)
Irrational Number	Any real number that is not rational. $(\sqrt{2}, \pi)$
Real Numbers	All numbers associated with the number line.

A rational number is	EXAMPLES OF
	RATIONAL NUMBERS
<u>a real number</u> that	• 16 → 16
can be written as a	
ratio of two a	• 1/2
<del></del>	• 3.56 <sub>c</sub>
	• -8 = -1
A rational number	• 1.3333
written in decimal wy	• -3/4
form is terminating . 3567	
Torin 13 terminaring	
or repeating.	
(> .3531 3)	







A fraction with a denominator
of 0 is undefined because you
cannot divide by zero. So it is
not a number at all.
35 -untiport
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-	Vrite all classifications that apply to each number
	$\sqrt{5}$ 5 is a whole number that is
+	not a perfect square.
	irrational, real
	-12.75 -12.75 is a terminating decima
	rational, real
	$\sqrt{16}$ $\sqrt{16}$ 4
•	${2}$ ${2}$ ${2}$ ${2}$ ${2}$ ${2}$
_	Natural, whole, integer, rational, recl
Н	Marine Joriote J. Linger, January 1 cm