

Number Classification

Counting (natural) #'s - positive numbers that begin at 1 and increase by 1
ex. 1, 2, 3, ...

Whole #'s - counting #'s and zero
ex. 0, 1, 2, 3, ...

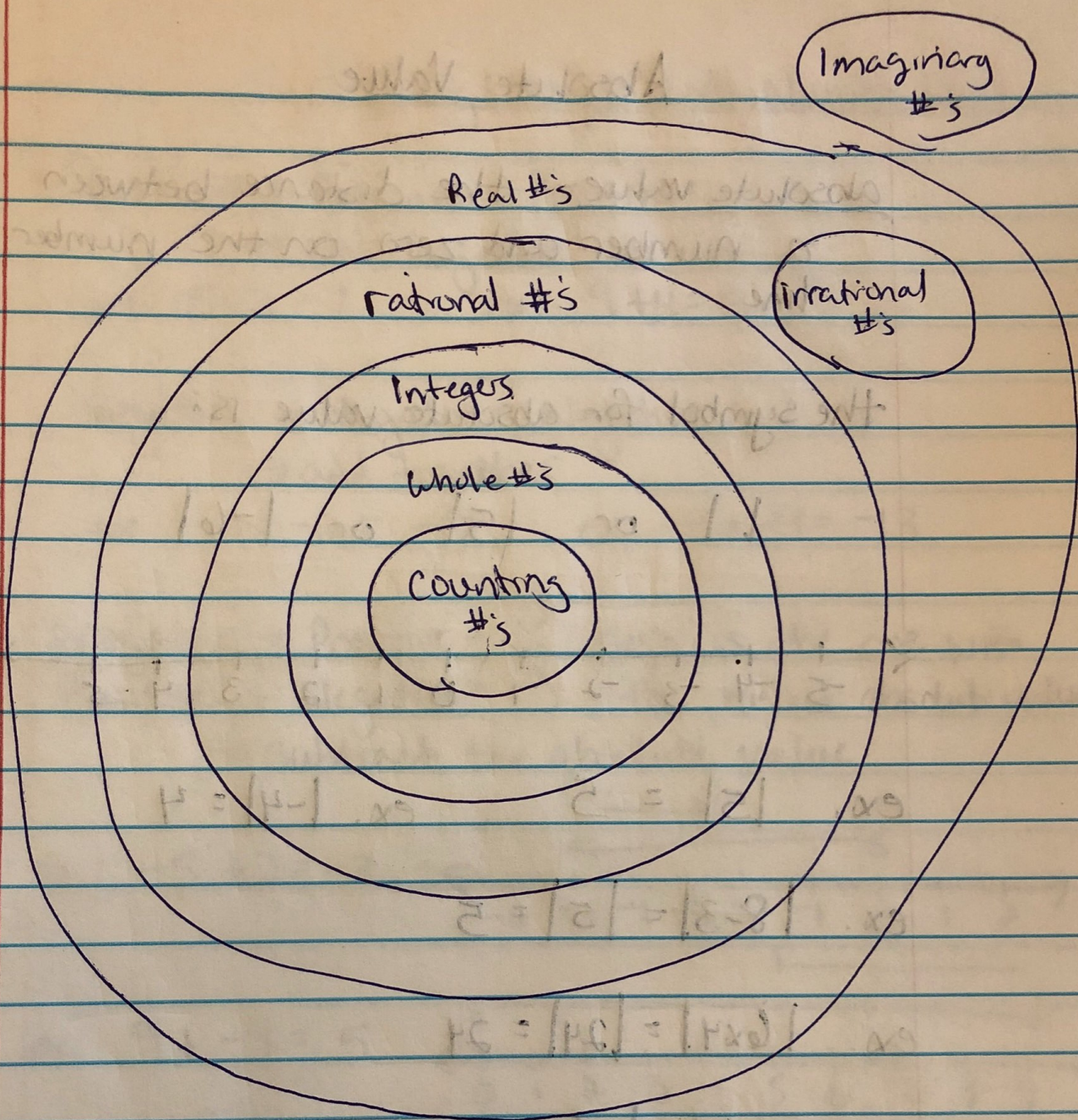
Integers - counting #'s and their opposites (negative #'s) and zero
ex. ... -3, -2, -1, 0, 1, 2, 3, ...

Rational #'s - can be expressed as a fraction or decimal. Includes counting #'s, whole #'s, and integers
ex. -3, $-\frac{1}{2}$, 0, .25, $\frac{11}{7}$, 1.23

(ration: you can ration food or give part of the food. Ration sounds like fraction + decimal can be written as a fraction. Decimals + fractions are part of a whole)

Irrational #'s - a decimal # that does not terminate or repeat
ex. 3.1415926535...

Real #'s - all #'s except imaginary #'s



Examples:

- 2 - Counting, whole, integer, rational, real
- 0 - whole, integer, ~~irrational~~ rational, real
- 2 - integer, rational, real
- $\frac{1}{2}$ - rational, real
- 1.3 - rational, real