The Real Number System

Vocabulary	Definition or Instructions	Examples
Natural Numbers	Also called "counting numbers" Only include positive numbers greater than 0, BUT no decimals or fractions	1, 2, 3, 4, 5, …………
Whole Numbers	Natural Numbers but includes Zero	0, 1, 2, 3, 4, 5, ………
Integers	Numbers that have no decimals or fractions Can be positive or negative	……,-4, -3, -2, -1, 0, 1, 2, 3, 4…….
Rational Numbers	Fractions that can be written as $\frac{x}{y}$ where x is an integer and y is an interger Also, decimals that terminate or repeat	$\frac{4}{5}$, $\frac{8}{3}$, $1\frac{2}{3}$, $\sqrt{4}$ 0.8888888…….. 3.5 7.3333333……..
Irrational Numbers	Non-Terminating AND Non-Repeating decimals	π, $\sqrt{5}$, 0.9867594632……..
Real Numbers	All the above types are numbers are called Real Numbers	All the examples above are examples of real numbers
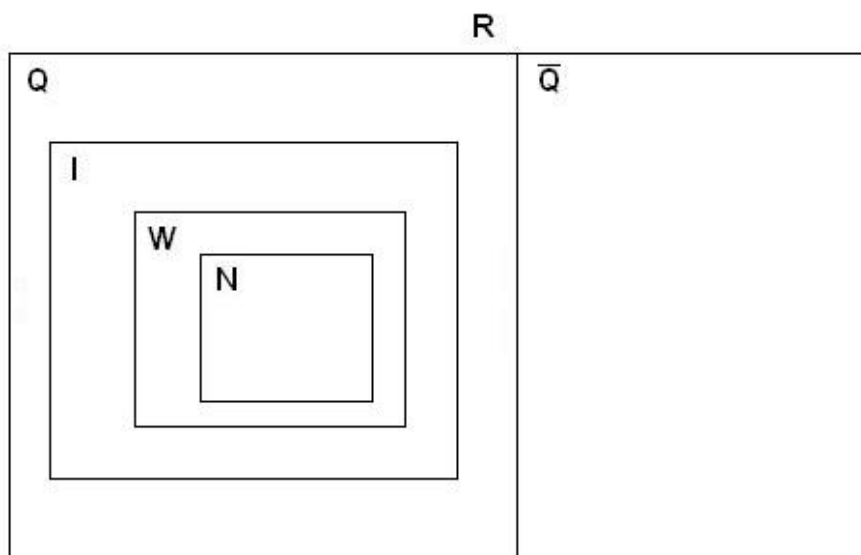
R: Real Numbers
$\overline{Q}$: Rational Numbers
Q: Irrational Numbers
I : Integers
W: Whole Numbers
N: Natural Numbers