Real Number System

ER2

real #s - set of all rational & irrational #s ($\mathbb{R}$)

rational #s - all numbers that can be expressed as a ratio ($\mathbb{Q}$) (fraction)

ex: $12=\frac{12}{1}$, $-13=\frac{26}{-2}$, $1.5=\frac{3}{2}$, $.\overline{6}=\frac{2}{3}$, $-2\frac{3}{4}=-\frac{11}{4}$

irrational #s - can not be expressed as a ratio, (fraction)

1) non-terminating, non-repeating decimals ex: π

2) if a radical sign is present after simplifying ex: $\sqrt{2}$

integers - all whole #s and their opposites: -2,-1,0,1,2.....($\mathbb{Z}$)

whole #s - natural #s and zero: 0,1,2,3...(W)

natural #s - counting #s: 1,2,3...($\mathbb{N}$)

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