

RATIONAL NUMBERS

Definition: A number that can be expressed as a fraction where both the numerator and denominator are integers, and the denominator is not zero. $\frac{a}{b}$ (where $b \neq 0$)

Integers	Whole numbers and their opposites	-5, 0, 12, 104
Fractions	Proper, improper, and mixed	$\frac{1}{2}$, $\frac{7}{3}$, $4\frac{1}{2}$
Terminating Decimals	Decimals that end	0.25, 0.8, 1.125
Repeating Decimals	Decimals with a recurring pattern	0.333..., 0.1414...

“ RATIONAL

- 16 (Perfect Squares)
- -0.75
- $\frac{22}{7}$

— NOT RATIONAL (Irrational)

- π (Pi)
- 2 (Non-perfect squares)
- $1.234567...$ (No pattern)