

RATIONAL NUMBERS (Â,,Š)

REFERENCE

Formal Definition: $Q = \{ a/b \mid a, b \in \mathbb{Z}, b \neq 0 \}$ A rational number is any number that can be expressed as a fraction where the numerator and denominator are integers, and the denominator is not zero.

TYPE	CHARACTERISTICS	EXAMPLES
Integers	Whole numbers and their negatives	-3, 0, 15, 102
Terminating Decimals	Decimals that end	0.5, 0.125, -2.45
Repeating Decimals	Infinite patterns of digits	0.333..., 0.1414...
Proper Fractions	Numerator < Denominator	1/2, 3/4, 7/10

Natural (Â,,•)

1, 2, 3...

Whole (W)

0, 1, 2...

Integers (Â,,\u0394)

...-1, 0, 1...

Rational (Â,,Š)

a/b