

Is it Rational?

Only if ...

**The number can be written as
the ratio of 2 integers.**

(Integers = positive and negative whole numbers)

Yes, that's
right, a
FRACTION!

Type of Decimal	Rational	Irrational
Terminating	Integers: $-4 = \frac{-4}{1}$ $0.625 = \frac{5}{8}$ $\sqrt{\text{Perfect Square}}: \sqrt{25} = \frac{5}{1}$ Use powers of 10: $0.63 = \frac{63}{100}$	
Non-Terminating <u>Repeating</u>	$1.\overline{222} = \frac{11}{9}$ $0.\overline{51} = \frac{51}{99}$ $0.\overline{142857} = \frac{1}{7}$	
Non-Terminating <u>Non-Repeating</u>		$\sqrt{\text{Not a Perfect Square}}$ π 4.35275...