GCD & LCM Calculator

Find greatest common divisor and least common multiple across a list of integers using the Euclidean algorithm and exact integer arithmetic.

Formula: gcd(a,b) = gcd(b, a mod b); lcm(a,b) = |a * b| / gcd(a,b)

INPUTS AND EXAMPLE VALUES

Integers separated by commas or spaces: 12, 18, 24

CHECK THE DEFAULT EXAMPLE

GCD: 6

LCM: 72

LIMITS AND CONVENTIONS

Zero with a nonzero number has that number’s absolute value as GCD; any zero makes LCM zero.

All-zero GCD is returned as zero by convention.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/gcd-lcm-calculator

OpenStax - Prealgebra 2e: numbers, fractions and percentages: https://openstax.org/books/prealgebra-2e/pages/1-introduction

Display precision is for reporting; keep unrounded values for later calculations. Verify units and conventions. This reference does not replace institution, employer or network rules.