Factorial Calculator

Compute the exact factorial of a non-negative whole number using arbitrary-size integer arithmetic rather than letting large results overflow to Infinity.

Formula: n! = 1 * 2 * ... * n; 0! = 1

INPUTS AND EXAMPLE VALUES

Integer from 0 to 1,000: 10

CHECK THE DEFAULT EXAMPLE

Exact factorial: 3628800

LIMITS AND CONVENTIONS

Only integer factorials from 0 to 1,000 are supported.

This tool does not implement the gamma function or factorials of fractions.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/factorial-calculator

OpenStax - Factorials and permutations: https://openstax.org/books/contemporary-mathematics/pages/7-2-permutations

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.