

# JUST 123 — FREE SAMPLER

Dr. UV's Math Universe · Two books, three digits, zero calculators

6 real puzzles · 3 from each book · complete answer key

## Why three digits change everything

Most math practice is about how to calculate. Just 123 is about how to see. Restrict the whole universe to only the digits 1, 2, and 3 and the arithmetic disappears — what's left is the pure logic of the equation. Calculator-useless, AI-proof: a computer tries every combination; a human finds the one elegant move.

## How to play — two games, one universe

Junior — One Move. The equation is false. Swap any two digits — one move — to make it true. A gentle warm-up in seeing structure.

Senior — Fill in the Blanks. Each  $\square$  holds a number built from 1, 2, 3 (like 2, 13, or 31). The hard set adds exponents (<sup>2</sup>and<sup>3</sup>), and some puzzles say Find all answers! — catch every one.

## JUST 123: JUNIOR EDITION — One Move · Grades 2+

Medium

$$12 + 1 = 31$$

Swap two digits to make it true!

Medium

$$31 \div 1 = 13$$

Swap two digits to make it true!

Hard

$$2 \times 23 = 64$$

Swap two digits to make it true!

From Just 123: Junior Edition — 50 one-move puzzles, every 'also works' alternate in the key.

## JUST 123: SENIOR EDITION — Fill in the Blanks · Grades 5+

Medium

$$\square - 2 = 11$$

Fill in the blank!

Hard

$$\square - 3 = 3^2$$

Fill in the blank!

Hard

$$\square \times \square = 3^2$$

Fill in the blank!

From Just 123: Senior Edition — 50 fill-in-the-blank puzzles, the hard set with exponents, machine-verified answer key.

## Answer key

| #  | Puzzle                         | Answer                                         |
|----|--------------------------------|------------------------------------------------|
| J1 | $12 + 1 = 31$                  | $12 + 1 = 13$                                  |
| J2 | $31 \div 1 = 13$               | $13 \div 1 = 13$ (also: $31 \div 1 = 31$ )     |
| J3 | $2 \times 23 = 64$             | $2 \times 23 = 46$ (also: $2 \times 32 = 64$ ) |
| S1 | $\square - 2 = 11$             | 13                                             |
| S2 | $\square - 3 = 3^2$            | 12 ( $12 - 3 = 9$ )                            |
| S3 | $\square \times \square = 3^2$ | $3 \times 3 = 9$                               |

**Enjoyed these six? There are a hundred more.**

|                          |                                |        |
|--------------------------|--------------------------------|--------|
| Just 123: Junior Edition | Grades 2+ · One Move           | \$4.99 |
| Just 123: Senior Edition | Grades 5+ · Fill in the Blanks | \$6.99 |
| Bundle — both books      | The full 1-2-3 universe        | \$9.99 |

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