

Variables in the base and exponent

A substitution checks one case; the law explains all allowed cases.

VARIABLE BASE · INDEPENDENT SLOTS

$$x^3 \times x^2 = x^5$$

At $x=2$: $8 \times 4 = 32$; the quotient needs x not 0.

VARIABLE EXPONENT · KEEP BRACKETS

$$2^n \times 2^{(n+2)} = 2^{(2n+2)}$$

At $n=2$: $4 \times 16 = 64 = 2^6$.

For the story model, n is a whole number 0 or more.

POWER OF POWER · A DIFFERENT STRUCTURE

$$(2^r)^2 = 2^{(2r)}$$

At $r=3$: eight by eight gives 64 paper icons.

MY MODEL UNIT / DOMAIN / LIMIT

Counts do not prove usability, size or real participation.