

Laws of Exponents	Laws of Logs
$b^{m+n} = b^m b^n$	$\log_b xy = \log_b x + \log_b y$
$b^{m-n} = \frac{b^m}{b^n}$	$\log_b \frac{x}{y} = \log_b x - \log_b y$
$b^0 = 1$	$\log_b 1 = 0$
$b^{-n} = \frac{1}{b^n}$	$\log_b \frac{1}{x} = -\log_b x$
$(b^m)^n = b^{mn}$	$\log_b (x^y) = y \log_b x$

The Dance of Number, ©2017 by James D. Nickel. Permission granted to reproduce.