Zusammenfassung: Potenzschreibweise, Potenzrechnung, Potenzgesetze

$a^0 = 1$	$5^0 = 1$
$a^1 = a$	$5^1 = 5$
$a^{-1} = 1/a$	$5^{-1} = 1/5$
$a^{-n} = 1/a^n$	$5^{-2} = 1/5^2 = 1/25$
$a^m \cdot a^n = a^{m+n}$	$5^2 \cdot 5^3 = 5^5 = 3125$
$a^m : a^n = a^{m-n}$	$5^6 : 5^4 = 5^2 = 25$
$a^m \cdot b^m = (a \cdot b)^m$	$5^2 \cdot 4^2 = (5 \cdot 4)^2 = 20^2 = 400$
$a^m : b^m = (a : b)^m$	$6^2 : 3^2 = (6 : 3)^2 = 2^2 = 4$
$(a^m)^n = a^{m \cdot n}$	$(5^2)^3 = 5^{2 \cdot 3} = 5^6 = 15625$

$1mm = 1 \cdot 10^{-3}m$	$1km = 1 \cdot 10^{3}m$
$1\mu m = 1 \cdot 10^{-6}m$	$1Mm = 1 \cdot 10^{6}m$
$1nm = 1 \cdot 10^{-9}m$	$1Gm = 1 \cdot 10^{9}m$
$1pm = 10^{-12}m$	$1Tm = 1 \cdot 10^{12}m$

Abkürzungen:

mm = Millimeter

µm = Mikrometer

nm = Nanometer

pm = Pikometer

km = Kilometer

Mm = Megameter

Gm = Gigameter

Tm = Terameter