INDEX NOTATION

3^2 means 3×3 (we say "3 squared")

3^3 means $3 \times 3 \times 3$ (we say "3 cubed")

3^4 means $3 \times 3 \times 3 \times 3$ ("3 to the power of 4")

3^5 means $3 \times 3 \times 3 \times 3 \times 3$ ("3 to the power of 5")

etc …..

3^n means $3 \times 3 \times ... \times 3$ ("3 to the power of n")

examples: $7^4 = 7 \times 7 \times 7 \times 7 = 2{,}401$

$5^3 = 5 \times 5 \times 5 = 125$ $(-2)^3 = (-2) \times (-2) \times (-2) = -8$