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Positive Exponents

Lesson 1

When a factor is repeated several times in an expression, we can use exponents to shorten the amount of writing.

 $3 \times 3 \times 3 \times 3 \times 3 \times 3 = 3$

In the above example, 3 is the **base**, 6 is the **exponent** and 3 is called the **power**.

Exponential Form	Word Form	Factored Form	Standard Form
3°	Three to the power of zero		1
84	Eight to the power of four	8 x 8 x 8 x 8	4096
42	Four squared = 2	4 x 4	16
73	Seven cubed C = 3	フ xフxフ	343
$\left(\frac{3}{4}\right)^3$	Three-quarters to the third power	3 × 3 × 3 4	27 64
33/4	Three cubed divided by four	3×3×3 4	27 4
2(-5)4	Negative five to the fourth power	(-5) x (-5) x (-5) x (-5)	+625
-54	Five to the power of four is subtracted from some number	-5 x 5 x 5 x 5	-625