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Evaluating Negative Exponents Lesson
$8^{4}$ Positive Exponent

Positive exponents tell us how many times we multiply a number.

Example: $8^{4}=8 \times 8 \times 8 \times 8=4,096$

8-4~Negative Exponent

A negative is the opposite of a positive. The same is true of exponents.
Negative exponents tell us how many times we divide a number.


Example: $8^{-4}=1 \div 8 \div 8 \div 8 \div 8$

You could also simplify negative exponents by making it equal to 1 over the positive exponent of itself.

Example: $8-4 \quad=1 \div(8 \times 8 \times 8 \times 8)$ or $\frac{1}{8^{4}}$
$=1 / 4,096=0.0002$

