EXPONENTS

What are exponents?

In a mathematical expression where the same number is multiplied many times, it is often useful to write the number as a base with an exponent. **The exponent represents the number of times to multiply the number, or base. When a number is represented in this way it is called a power.**

Example: $5^3 \rightarrow$ power with base of 5 and exponent of 3

How to use exponents:

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- nd

then added.

- When performing mathematical operations with exponents, evaluate the exponent and then perform the operation. In the Order of Operations, exponents are evaluated after parentheses.

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Try this!

1. Solve the following:

6^2 =

4^3 =

5 ^ 4 =

3 ^ 4 =

2. Rewrite with exponents:

3.

Solve:

$6^2 + 4$ =

$2^3 \cdot 3^2$ =

$5 + 8^2 - 12$ =

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