

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 → power with base of 5 and exponent of 3

How to use exponents:



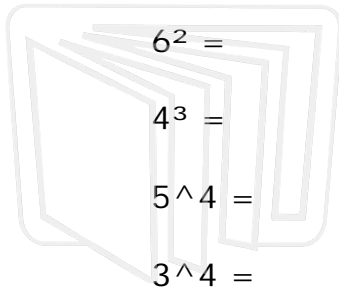
PREVIEW

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

Try this!

1. Solve the following:



$$6^2 =$$

$$4^3 =$$

$$5^4 =$$

$$3^4 =$$

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2. Rewrite with exponents:



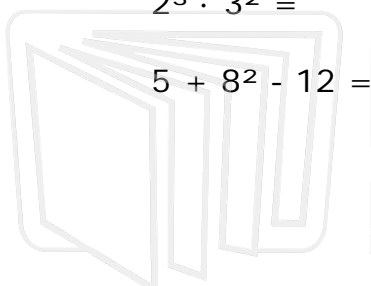
3. **PREVIEW**

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Solve:

$$6^2 + 4 =$$

$$2^3 \cdot 3^2 =$$



$$5 + 8^2 - 12 =$$

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