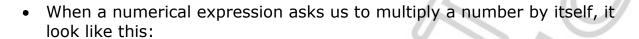


What Is Representing Repeated Multiplication in Exponential Form?



 Repeated multiplication is multiplying the same number by itself 2 or more times such as:



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An exposite
 is slight

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number and

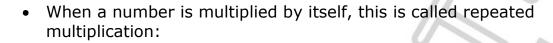
$$5^2$$
 4^3 10^4 15^8

• An exponent tells how many times to multiply a number by itself.

$$5 \times 5 \rightarrow 5^{2}$$
 $4 \times 4 \times 4 \rightarrow 4^{3}$
 $10 \times 10 \times 10 \times 10 \rightarrow 10^{4}$



How to represent repeated multiplications in exponential form:



- Another way to express this multiplication is to count the number of times the number is multiplied and place an exponent next to the number. The exponent is written smaller and goes to the right and slightly above the number.
 - \bullet 30 x 30 = 30²
 - $8 \times 8 \times 8 = 8^3$



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o multiply

Try This:

What would be the exponential form of the following repeated multiplication expressions?

305 x 305 x 305 x 305 x 305 x 305 x 305 = ____