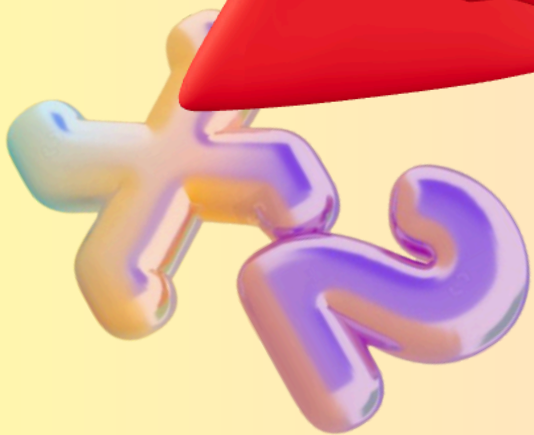
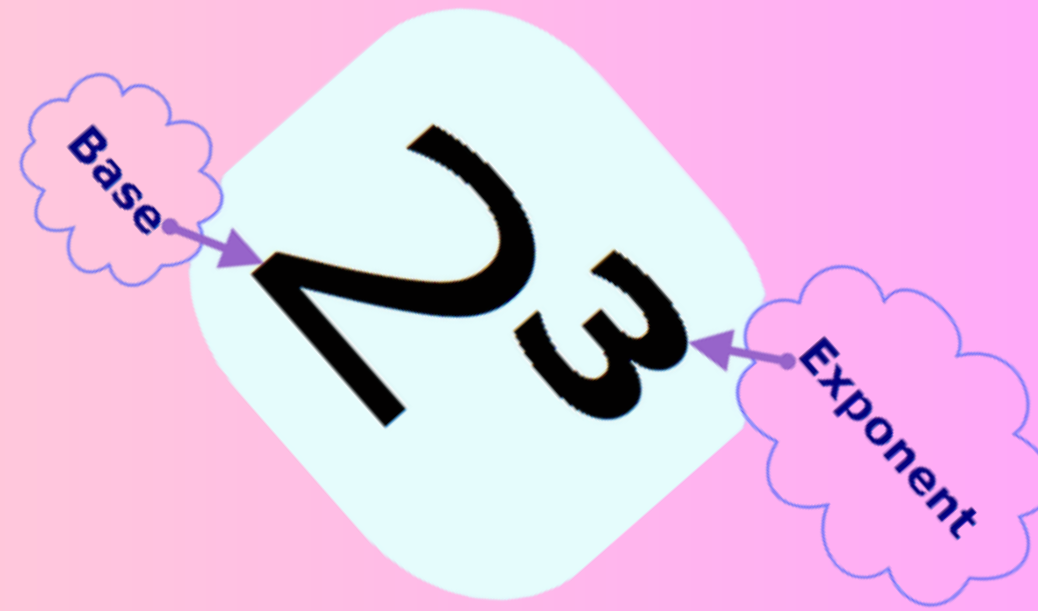


EXPONENT AND BASE

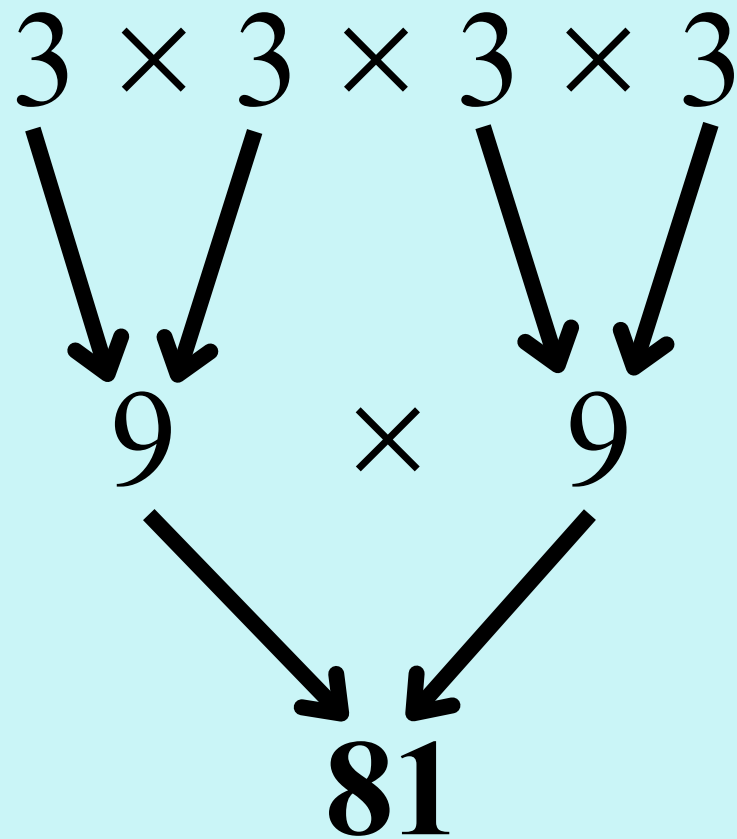


An **exponent** indicates the power to which the base is raised.

For example, in 3^2 , 3 is the base, and 2 is the exponent. The exponent tells you how many times to multiply the base by itself.

For example 3^2 therefore you can multiply the base or 3, 2 times $3 \times 3 = 9$

Another example 3^4



Note: Base with the value of positive integers but **NOT** equal to zero, that raise to zero is 1.

$$n^0 = 1 \quad n \neq 0$$

Example:

Write and evaluate the exponential notation of $5 \times 5 \times 5 \times 5$

Solution:

5^4 the base is 5 and exponent is 4

Base Exponent

Use 5 as a base as a factor 4 times;
therefore: $5 \times 5 \times 5 \times 5$