

Exponent or Power

Exponential Notation

Base

Expanded or Factored Form

If asked to evaluate or simplify,
then multiply to find the value.

An exponent applies to what it touches, nothing more:

$$-5xy^2z$$

$$-3^2$$

$$(-3)^2$$

Exponential Notation

10^2

10^3

10^4

Factored Form

Evaluate or Simplify

Write as a power of 10.

(This gets used in scientific notation.)

Here are some examples that may look strange:

1^3

1^{17}

$5^0 =$

$19^0 =$

$(-4)^0 =$

$-4^0 =$

$x^0 =$