

All numbers can be written in **scientific notation**

A number in **scientific notation** is written as:

$$a \times 10^n$$

$1 \leq a < 10$

n is an integer
(positive or negative)

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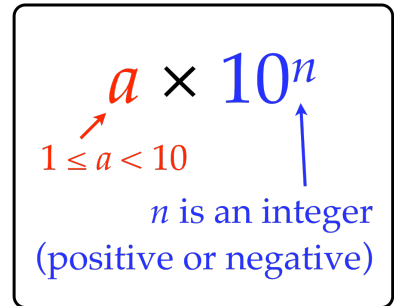
$$3.24 \times 10^{-5}$$

$$0.874 \times 10^8$$

$$1.1 \times 10^{\frac{1}{2}}$$

27,593 =

0.00123



A diagram showing the general form of scientific notation: $a \times 10^n$. The variable a is in red, and the expression 10^n is in blue. A red arrow points from the inequality $1 \leq a < 10$ to the a . A blue arrow points from the text " n is an integer (positive or negative)" to the n in the exponent.

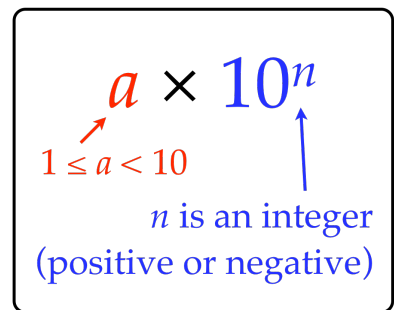
$$a \times 10^n$$

$1 \leq a < 10$

n is an integer
(positive or negative)

4,551

0.000067291



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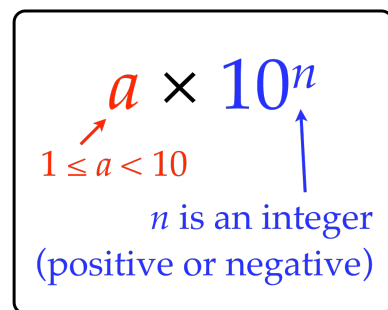
$$a \times 10^n$$

$1 \leq a < 10$

n is an integer
(positive or negative)

$$2.1 \times 10^8$$

$$2.45 \times 10^{-4}$$



A diagram illustrating the components of scientific notation. It shows the expression $a \times 10^n$ in red and blue. A red arrow points from the text $1 \leq a < 10$ to the variable a . A blue arrow points from the text n is an integer (positive or negative) to the variable n in the exponent.

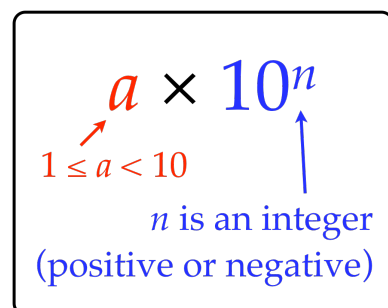
$$a \times 10^n$$

$1 \leq a < 10$

n is an integer
(positive or negative)

$$4.56 \times 10^5$$

$$6.7 \times 10^{-2}$$



A diagram illustrating the components of scientific notation. It shows the expression $a \times 10^n$ in red and blue. A red arrow points from the text $1 \leq a < 10$ to the variable a . A blue arrow points from the text n is an integer (positive or negative) to the variable n in the exponent.

$$a \times 10^n$$

$1 \leq a < 10$

n is an integer
(positive or negative)