

additive inverse

The opposite of a number. The sum of a number and its additive inverse is always zero.

Examples: $-3 + +3 = 0$; $-12 + +12 = 0$

evaluate

To calculate the numerical value.

expression

A number, a variable, or any combination of numbers, variables, operation signs, and grouping symbols.

Examples: $2n \times 3 + 4n$
 $34.2 \div 2$

inequality

A relation that is expressed by placing an inequality symbol between two expressions.

Examples: $8 \neq 2$
 $5 + 7 \neq 6 + 4$
 $n \leq 7$

integers

The set of positive whole numbers,
their opposites (negative numbers), and 0.

Examples: ..., -3 , -2 , -1 , 0 , $+1$, $+2$, $+3$, ...

inverse properties

Properties that are the reverse of each other, such as addition and subtraction or multiplication and division.

irrational numbers

Non-terminating, non-repeating decimals that cannot be expressed as the ratio of two integers.

Examples: $-\sqrt{\frac{2}{9}}$, 2.1121232223...

multiplicative inverse

Any two numbers whose product is 1. For any nonzero number x , the reciprocal is $\frac{1}{x}$. The multiplicative inverse of a fraction $\frac{a}{b}$ is the fraction $\frac{b}{a}$. Also called the *reciprocal*.

rational numbers

A number that can be expressed in the form $\frac{a}{b}$,
where a and b are any integers and b is not equal to zero.

real numbers

The set of all rational and irrational numbers.

solution to an inequality

Any value of a variable that makes an inequality true.