FOUND IN TRANSLATION

The following are some basic translations from English Language to Math Language that I do when solving PSAT/SAT math problems:

English Words	***Math Way to Say It***
is, equals, is the same as, has, cost	**=**
of	**x (times)**
a number	**n**
the opposite of the number	**- n**
a positive number or zero	**n^2**
a multiple of 2, an even number (if n is an integer)	**2n**
a multiple of 3 (if n is an integer), etc.	**3n**
a positive fraction	**0 < n < 1**
a negative fraction	**-1 < n < 1**
percent	$\frac{the-percent-number}{100}$
what percent	$\frac{x}{100}$
the percent of increase	$\frac{amountofincrease}{originalamount}$ **x 100**
the percent of decrease	$\frac{amountofdecrease}{originalamount}$ **x 100**
n percent greater than x	**x +** $\frac{n}{100}$**x**
n percent less than x	**x –** $\frac{n}{100}$**x**
sum **an example: the sum of two numbers is six**	**a + b** **a + b = 6**
product **an example: the product of two numbers is ten**	**ab** **ab = 10**
difference **an example: the difference of two numbers is 20**	**a – b** **a – b = 20**
ratio, fraction, quotient **an example: the ratio of a to b is 2 to 3**	$\frac{a}{b}$ **,** $\frac{a}{b}$ **=** $\frac{2}{3}$
average **an example: the average of a and b equals 2**	$\frac{a+b}{2}$ **,** $\frac{a+b}{2}$ **= 2**
The product of a and b is 1; therefore a and b are reciprocals.	**ab = 1**
The sum of a and b is 0; therefore a and b are opposites	**a + b = 0**