TRANSLATING ENGLISH PHRASES INTO ALGEBRAIC EXPRESSIONS

ENGLISH PHRASES	ALGEBRAIC EXPRESSIONS
Ten more than a number	$x + 10$
A number added to five	$5 + x$
A number increased by thirteen	$x + 13$
Four less than ten	$10 - 4$
Six less than a number	$x - 6$
A number decreased by seven	$x - 7$
The difference between a number and three	$x - 3$
The difference between three and a number	$3 - x$
Twice a number	$2x$
Half (of) a number	$\frac{1}{2}x \ or \ \frac{x}{2}$
A number squared *or* the square of a number	x^2
The square of five more than a number	$(x + 5)^2$
Five more than the square of a number *or* the square of a number, increased by five	$x^2 + 5$
Ten percent of a number	$0.10x$
Ten times a number	$10x$
Quotient of a number and three	$\frac{x}{3}$
Quotient of three and a number	$\frac{3}{x}$
Five times the sum of a number and two	$5(x + 2)$
Five times the difference of a number and four	$5(x - 4)$
Five is three more than a number	$5 = x + 3$
The product of two and a number is ten	$2x = 10$
One half (of) a number is ten	$\frac{1}{2}x = 10$
Ten less than eight times a number is five more than the number	$8x - 10 = x + 5$
The sum of five times a number and ten is equal to the product of 15 and the number	$5x + 10 = 15x$
The sum of two consecutive integers	$x + (x + 1)$
The sum of two consecutive even integers	$x + (x + 2)$
The sum of two consecutive odd integers	$x + (x + 2)$
The sum of the squares of two consecutive integers	$x^2 + (x + 1)^2$
The sum of the cubes of two consecutive integers	$x^3 + (x + 1)^3$

TRANSLATING ENGLISH TERMS INTO ALGEBRAIC OPERATORS

Accumulate ....+

Add, add up, added to, addition, additional...............................+

Alike.......................................=

Also..+

Altogether ....+

Amounts to..............................=

Amplify, amplified by................×

And...+

Appreciate...............................+

Are (equal)..............................=

Area..×

Balances ....=

Bigger (than)...........................+

Coincides (with).......................=

Combine(d) ....+

Corresponds (to)......................=

Cut (by) ....−

Cut by a factor of ....÷

Decline, declined by.................−

Decline(d) by a factor of............÷

Decrease(d) by, decrement.........−

Decrease(d) by a factor of..........÷

Deduct, deducted from...............−

Depreciate ....−

Difference (of) ....−

Diminished (by) ....−

Diminished by a factor of..........÷

Divide, divided by, divided into..÷

Double(d) ....×

Dropped by..............................−

Dropped by a factor of ....÷

Dwindle..................................−

Equal, equals...........................=

Equivalent (to) ....=

Exceeds ....>

Exceeds by ....+

Factors....................................×

Fall ....−

Farther....................................+

Fewer than...............................−

Find the total............................ +

Fraction.................................. ÷

Fraction of .... ×

Gain ....× or +

Gives (a result of), giving........... =

Go (went) up............................ +

Go (went) up by a factor of .... ×

Greater (than) .... +

Grew by, grow by .... +

Halved .... ÷

Identical to.............................. =

In addition (to)........................ +

In all....................................... +

In excess .... +

Increased (by), increment .... +

Increase(d) by a factor of........... ×

Intensified by .... ×

Interest on .... ×

Is (equal)................................. =

Is greater (than) .... >

Is less (than)............................ <

Less (than) .... −

Larger (than)............................ +

Lengthen (by), longer (than)....... +

Lower, lowered by..................... −

Matches .... =

Magnified by .... ×

Minus...................................... −

More (than).............................. +

Multiple, multiply, multiplied by ×

Narrower (than) .... −

Net .... +

Of [usually in connection with fractions]................................... ×

Older (than) .... +

On top of................................. +

Per.. ÷

Percent (of)............................. ×

Perimeter .... +

Plus.. +

Product (of)............................. ×

Quadruple(d).............................×

Quarter ....÷

Quantity .... (…)

Quotient (of) ....÷

Raise, raised by, rise ....+

Ratio (of).................................÷

Reciprocal (of) ....÷

Reduce, reduce(d) by ....−

Reduce(d) by a factor of ....÷

Represents................................=

Result (is), results (are), results in=

Same (result) as........................=

Smaller (than) ....−

Smaller by a factor of.................÷

Shorten (by), shorter (than)........−

Subdivide ....÷

Subtract, subtracted from ....−

Sum (of), summation ....+

Take away, take from.................−

Tally (up) ....+

Thrice......................................×

Times, times as much, times larger, times more, times older ...×

Times less, times smaller, times younger ....÷

Together...................................+

Total (is)..................................=

Total of....................................+

Triple(d)...................................×

Twice ....×

Volume.....................................×

Was (equal), were (equal)...........=

Wider (than)..............................+

Will be (equal) ....=

… Years older (than) ....+

Yields.......................................=