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 2*x*

Half (of) a number  *or* 

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 0.10*x*

Ten times a number 10*x*

Quotient of a number and three 

Quotient of three and a number 

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 2*x* = 10

One half (of) a number is ten 

Ten less than eight times a number is five more than the number 8*x* − 10 = *x* + 5

The sum of five times a number and ten is equal to the product of 15 and the number 5*x* + 10 = 15*x*

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 =