

# NEGATE Function

Returns the opposite of the value that is the first argument. Equivalent to the `-` operator placed in front of the argument.

- The argument can be a literal Integer or Decimal number, a function returning a number, or a reference to a column containing numeric values.

**NOTE:** Within an expression, you might choose to use the corresponding operator, instead of this function. For more information, see *Numeric Operators*.

**Wrangle vs. SQL:** This function is part of Wrangle, a proprietary data transformation language. Wrangle is not SQL. For more information, see *Wrangle Language*.

## Basic Usage

```
negate(MyValue)
```

**Output:** Returns the opposite of the value in the `MyValue` column.

## Syntax and Arguments

```
negate(value1)
```

Argument	Required?	Data Type	Description
value1	Y	string	The first value must be an Integer or Decimal literal, column reference, or expression that evaluates to one of those two numeric types.

For more information on syntax standards, see *Language Documentation Syntax Notes*.

### value1

Integer or Decimal expressions, column references or literals.

- Missing or mismatched values generate missing string results.

### Usage Notes:

Required?	Data Type	Example Value
Yes	Literal, function, or column reference returning an Integer or Decimal value	15

## Examples

**Tip:** For additional examples, see *Common Tasks*.

## Example - Numeric Functions

This example demonstrate the following numeric functions:

- See *ADD Function*.
- See *SUBTRACT Function*.
- See *MULTIPLY Function*.
- See *DIVIDE Function*.
- See *MOD Function*.
- See *NEGATE Function*.
- See *LCM Function*.

### Source:

ValueA	ValueB
8	2
10	4
15	10
5	6

### Transformation:

Execute the following transformation steps:

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	ADD(ValueA, ValueB)
<b>Parameter: New column name</b>	'add'

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	SUBTRACT(ValueA, ValueB)
<b>Parameter: New column name</b>	'subtract'

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	MULTIPLY(ValueA, ValueB)
<b>Parameter: New column name</b>	'multiply'

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	DIVIDE(ValueA, ValueB)

<b>Parameter: New column name</b>	'divide'
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<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	MOD(ValueA, ValueB)
<b>Parameter: New column name</b>	'mod'

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	NEGATE(ValueA)
<b>Parameter: New column name</b>	'negativeA'

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	LCM(ValueA, ValueB)
<b>Parameter: New column name</b>	'lcm'

**Results:**

With a bit of cleanup, your dataset results might look like the following:

ValueA	ValueB	lcm	negativeA	mod	divide	multiply	subtract	add
8	2	8	-8	0	4	16	6	10
10	4	20	-10	2	2.5	40	6	14
15	10	30	-15	5	1.5	150	5	25
5	6	30	-5	5	0.8333333333	30	-1	11