

# Calculations Formula Cheatsheet

This doc will help you to build formulas in the [WPForms Calculations addon](#). For additional information and help creating formulas, please see our [Calculations addon documentation](#).

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## Rules

- Numbers: The dot (.) is the only symbol allowed as a decimal point (e.g., 5.20). Do not use a comma (,) for thousands. (e.g., 12999.45)
- Strings should be wrapped by quotes (') or double quotes ("). Examples: 'Hello, world!', "My name is Sullie".
- Adding a semicolon at the end of the formula line is optional.
- Only the operators, variables, conditional statements, and functions listed below are allowed.

## Arithmetic

| OPERATOR | DESCRIPTION  |
|----------|--|
| +        | Add  |
| —        | Subtract   |
| *        | Multiply   |
| /        | Divide   |
| ()       | Parentheses; enclose parts of the formula to be calculated first |
| %        | Modulo; returns the remainder of a division                      |

## Field Variables

Use values from other fields in your calculations.

Supported field types: [Single Line Text](#), [Paragraph Text](#), [Dropdown](#), [Multiple Choice](#), [Checkboxes](#), [Number](#), [Name](#), [Email](#), [Number Slider](#), [Phone](#), [Address](#), [Date / Time](#), [Website / URL](#), [Rating](#), [Hidden](#), [Checkbox Items](#), [Multiple Items](#), [Dropdown Items](#), [Single Item](#), [Total](#)

| VARIABLE PATTERN | VARIABLE EXAMPLE | EXPLANATION  |
|------------------|------------------|--|
| \$FX             | \$F1             | Value of the field with ID #X (#1).<br>All allowed fields provide the <b>main value</b> of the field. A simple field provides the value of the input element. The combined fields, like Name (but not a simple one), Address, Checkboxes, etc., will have the combined value. For example the Name field, his combined value is [first last] "John Smith".<br>Please note: the combined value stored in <b>\$FX</b> has the same formatting as the main field entry value visible on |



|    |                          |
|----|--------------------------|
| >= | Greater than or equal to |
| <= | Less than or equal to    |

## Functions

### Math Functions

| FUNCTION/USAGE                   | DESCRIPTION  |
|----------------------------------|--|
| abs( value )                     | Returns the absolute value of a number   |
| average( value1, [value2, ...] ) | Returns the average value in args  |
| ceil( value )                    | Rounds number up to the next largest integer                                       |
| exp ( value )                    | Returns e <sup>x</sup> , where e is Euler's numbers and x is the provided argument |
| floor( value )                   | Returns the largest integer less than or equal to a number                         |
| ln( value )                      | Returns the logarithm of a number, base e  |
| log( value )                     | Returns the logarithm of a number, base 10   |
| max( value1, [value2, ...] )     | Returns the largest value in the list of arguments                                 |
| min( value1, [value2, ...] )     | Returns the smallest value in the list of arguments                                |
| pi()                             | Returns pi (π) to 20 decimal places  |
| pow( base, exponent )            | Returns base raised to the power of exponent                                       |
| rand( min, max )                 | Generates a random integer   |
| round( value, precision )        | Rounds a number to the nearest integer   |
| sqrt( value )                    | Returns the square root of a number  |

### String Functions

| FUNCTION/USAGE                       | DESCRIPTION   |
|--------------------------------------|---|
| num( string, precision = 14 )        | Converts string to a number.<br>If precision is provided, the result value will be rounded to the given number of digits after the decimal point. |
| trim( string )                       | Strips whitespace (or other characters) from the beginning and end of the string  |
| truncate( string, length )           | Returns the first <code>length</code> characters of the string  |
| concat( str1, [str2, ...] )          | Concatenates all arguments str1, str2 ... strN to one string  |
| join( separator, str1, [str2, ...] ) | Join arguments str1, str2 ... strN to one string using the seperator  |
| format_amount( amount )              | Format the amount with a currency symbol  |

### Date/ Time Functions

| FUNCTION/USAGE   | DESCRIPTION  |
|--|--|
| now( format = '' )   | Returns the current date and time. The <code>format</code> is the WPForms datetime string format. An empty string (default value) means default format: <code>d-m-y H:i</code> .   |
| date_diff( start, end, units = 'days', format = '' )               | Calculate time range length in units. Units: <code>years</code> , <code>months</code> , <code>weeks</code> , <code>days</code> , <code>hours</code> , <code>minutes</code> , <code>seconds</code> . The <code>format</code> is the WPForms datetime string format. An empty string means that we will try to determine the right format automatically. |
| years( start, end, format = '' )                                   | Calculate time range length in years. The <code>format</code> is the WPForms datetime string format. An empty string means that we will try to determine the right format automatically.   |
| months(), weeks(), days(), hours(), minutes(), seconds() functions | Calculate time range length. Similar to <code>years()</code> above.  |

### Other Functions

|  |
|--|
|  |
|--|

| FUNCTION/USAGE                  | DESCRIPTION   |
|---------------------------------|---|
| debug( value1, [value2, ... ] ) | Outputs debug data to debug log on the server and to browser console when executed client side. |

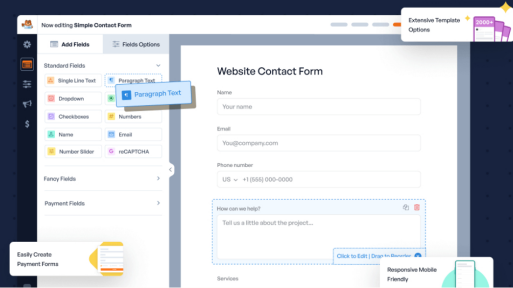
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## Top Features

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Form Landing Pages  
Entry Management  
Form Abandonment  
Form Notifications  
Form Templates  
File Uploads  
Calculation Forms

Geolocation Forms  
Multi-Page Forms  
Newsletter Forms  
Payment Forms  
Post Submissions  
Signature Forms  
Spam Protection  
Surveys and Polls  
User Registration  
WPForms AI

## Integrations

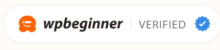
Drip Forms  
HubSpot Forms  
Mailchimp Forms  
Brevo Forms  
Salesforce Forms  
Authorize.Net  
PayPal Forms  
Square Forms  
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## Helpful Links

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