

How do I perform calculations?

Calculated Fields allow real-time calculations on data entry forms or surveys. Because calculations can slow web performance, they should be used judiciously. This FAQ will provide examples of: (1.) sum functions, (2.) the "+" function, (3.) conditional logic, and (4.) calculations based on check box fields.

1. Within the 'Designer' in the left navigation menu, create a new field by selecting Field Type:

Pro Tip: Calculated fields only result in numbers. For calculations that result in text (e.g. TRUE/FALSE), please refer to **FAQ:** ACTION TAGS: CALCULATE TEXT. For calculations that result in a date, refer to **FAQ:** ACTION TAGS: CALCULATE DATE.

Calculated Field:

Field Type: Calculated Field	~]	
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- a. Add a descriptive field label, then create the equation in the 'Calculation Equation' box.
- b. For a detailed list of functions that can be used, click on the blue 'Special Functions' button.

Field Label	Use the Rich Text Editor ?
a	b
Calculation Equation	at the equation? Learn how to use 🗸 Special Functions

2. Once you have created your calculated field, test it by creating simulated records. There is also an option to test the calculation using existing records within the Add/Edit Field pop-up.



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Example #1: Using the "sum" function.

To sum fields regardless of fields having data, use the syntax sum([var1],[var2],[var3]).

Logic Editor	×
Use the text box below to compose your logic, calculation, action tags, etc. If you need more space, click the Fullsc Mode button to enlarge the text box. When you are finished, click the 'Update' button to minimize the Editor window. Learn how to use [r] Smart Variables Secial Functions @ Action Tags or open the Codebook	reen
sum(][phq1],[phq2])	

The logic in the example above will return a calculation, even if a field has missing data:

PHQ-2 Over the last 2 weeks, how often hav	/e you b	een bothered by	the following proble	ems?	
		Not at all	Several days	More than half the days	Nearly every day
Little interest or pleasure in doing things	e Q	0	۲	0	O
Feeling down, depressed or hopeless	H P	0	0	0	O
PHQ-2 Score			⊕ ଢ़1	View equation	l.

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Example #2: Using the "+" function.

To sum fields only when all fields have data, use the "+" function:



The logic in the example above will return a calculation ONLY if both fields have data, otherwise the calculated field will remain blank as shown below:

PHQ-2 Over the last 2 weeks, how often have you been bothered by the following problems?					
		Not at all	Several days	More than half the days	Nearly every day
Little interest or pleasure in doing things	Ð	0	۲	0	O
Feeling down, depressed or hopeless	E) P	0	0	0	O
PHQ-2 Score			₿	View equation	

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Example #3: Incorporating conditional logic.

Conditional logic is useful when you want to disregard a response. For example, when your responses include an N/A option. Use the 'If' function for incorporating conditional logic. The 'If' function has the syntax if (x,y,z), where if x is true, then y, else z.

Logic Editor	X
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II (([phqI] <> 33 AND [phqZ] <> 33),[phqI]+[phqZ], ()	

The logic in this example will result in a calculation only when neither variable is equal to '99' (N/A).

PHQ-2 Over the last 2 weeks, how often have you been bothered by the following problems?						
		Not at all	Several days	More than half the days	Nearly every day	N/A
Little interest or pleasure in doing things	Ð	۲	0	0	0	O
Feeling down, depressed or hopeless	Ð	0	0	0	0	reset
PHQ-2 Score					View equation	

If you have an error in your calculated field involving branching logic, refer to FAQ: CALCULATED FIELD ERROR.

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Example #4: Performing calculations on checkbox fields.

Checkbox fields are unique in that each answer for the question is considered a variable. Each option has a value of 1 when checked and 0 when unchecked.

When using checkbox fields in calculation, you will need to include the code with the field name.

Example:

	Select the days in the last week in which you exercised for at least 30 minutes	Bunday Monday Tuesday Wednesday Thursday Friday Saturday
--	--	--

Below are the field choices for the checkbox field [days_exercise].

Field Type: Checkboxes (Multiple Answers)		~	
Field Label		Use the Rich Text Editor ?	
Select the days in the last week in	which you exercised for at least 30 minutes		
Choices (one choice per line) 1, Sunday 2, Monday	Copy existing choices		
3, Tuesday 4, Wednesday 5, Thursday 6, Friday			
7, Saturday			

Notice the code for each option. These codes (1, 2, 3, 4...) are paired with the field name to count each response in the calculation.

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Example #4 (cont'd): Performing calculations on checkbox fields

The equation below adds the checkbox options to calculate the number of days selected. Notice that the code for each option is included with the field name.

Logic Editor	3
Use the text box below to compose your logic, calculation, action tags, etc. If you need more space, click the Fullscree Mode button to enlarge the text box. When you are finished, click the 'Update' button to minimize the Editor window. Learn how to use [*] Smart Variables V Special Functions @ Action Tags or open the Codebook	en
<pre>[days_exercise(1)] + [days_exercise(2)] + [days_exercise(3)] + [days_exercise(4)] + [days_exercise(5)] + [days_exercise(6)] + [days_exercise(7)]</pre>	

Once completed, the data entry form will look like this:

Select the days in the last week in which you exercised for at least 30 minutes	 Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Total number of days per week participant exercised for at least 30 minutes	H View equation

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