

# Simple calculation with formula field

Here is a simple demo to show how the formula fields can be used

We have 2 types of fields for calculations:

- Calculated - which is calculated ONLY when the record is created
- Formula - which is calculated and re-calculated each time the record is saved (created or updated)

You can use any of the functions or operations documented here: [Supported math operators, formulas and functions](#)

There is also a way to do calculations with ConfiForms Field Definition Rules

- [Page to demo score calculation using 2 methods](#)
- [Using ConfiForms Rule for Field Definition to calculate the sums online](#)

Here we have a simple form with 4 fields:

2 of number types and 3 of formula types

We have the following formulas in this form:

- $([entry.f1] + [entry.f2])$
- $(ROUND([entry.f1] / [entry.f2],2))$
- $CONCAT("Some random: ", ((RANDOM() + [entry.f1] - [entry.f2] + NOW())))$

Example configuration of a formula field:

Edit 'ConfiForms Form Field Definition' Macro

Field label \*

My formula 0

☐ Required \*

Field type

Formula

Grouping key:

Field names, comma separated. Leave blank if grouping is not required

Expression:

(ROUND([entry.f1] / [entry.f2],2))

See how to write expressions [here](#).  
Including referencing other fields using the [entry.fieldname] notation

Preview

Select macro

Save

Cancel

f1 \*

f2 \*

Save and Calculate

Stored data

f1	f2	My formula 0	My formula 1	My formula 2
----	----	--------------	--------------	--------------

2	2	1	4	Some random: 1715993991995.412
1	2	0.5	3	Some random: 1715993991999.990
1	1	1	2	Some random: 1715993992001.098
1	2	0.5	3	Some random: 1715993992002.907
4	4	1	8	Some random: 1715993992004.796
4	4	1	8	Some random: 1715993992005.250
7	8	0.88	15	Some random: 1715993992005.703
1	2	0.5	3	Some random: 1715993992006.059
8	9	0.89	17	Some random: 1715993992007.135
4	5	0.8	9	Some random: 1715993992008.383
100	1	100	101	Some random: 1715993992109.693
100	1	100	101	Some random: 1715993992110.798
2	3	0.67	5	Some random: 1715993992010.517
1	1	1	2	Some random: 1715993992013.867
1	2	0.5	3	Some random: 1715993992012.132
10	10	1	20	Some random: 1715993992015.259
1	2	0.5	3	Some random: 1715993992015.099
1	1	1	2	Some random: 1715993992017.134
100	50	2	150	Some random: 1715993992068.954
1	2	0.5	3	Some random: 1715993992018.801
11	13	0.85	24	Some random: 1715993992017.763
23	44	0.52	67	Some random: 1715993991999.647
1	2	0.5	3	Some random: 1715993992020.087
1	3	0.33	4	Some random: 1715993992020.965
5	5	1	10	Some random: 1715993992023.530
20	20	1	40	Some random: 1715993992023.204
1	1	1	2	Some random: 1715993992024.130
1	2	0.5	3	Some random: 1715993992024.331
1	3	0.33	4	Some random: 1715993992024.274
1	2	0.5	3	Some random: 1715993992026.738
5	5	1	10	Some random: 1715993992028.094
10	2	5	12	Some random: 1715993992037.317
2	2	1	4	Some random: 1715993992030.393
5	4	1.25	9	Some random: 1715993992032.906

3	2	1.5	5	Some random: 1715993992033.317
1	2	0.5	3	Some random: 1715993992032.157
2	2	1	4	Some random: 1715993992034.472
5	5	1	10	Some random: 1715993992035.434
3	3	1	6	Some random: 1715993992037.097
22	100	0.22	122	Some random: 1715993991960.589
3	3	1	6	Some random: 1715993992039.653
1	2	0.5	3	Some random: 1715993992039.292
1	1	1	2	Some random: 1715993992040.752
1	0	0	1	Some random: 1715993992042.037
1	2	0.5	3	Some random: 1715993992041.397
1	1	1	2	Some random: 1715993992043.484
33	33	1	66	Some random: 1715993992044.804
545	556	0.98	1101	Some random: 1715993992034.428
545	556	0.98	1101	Some random: 1715993992034.515
3	6	0.5	9	Some random: 1715993992043.434
1	2	0.5	3	Some random: 1715993992046.728
20	10	2	30	Some random: 1715993992058.118
12	12	1	24	Some random: 1715993992049.920
7	5	1.4	12	Some random: 1715993992051.686
11	14	0.79	25	Some random: 1715993992047.230
1	2	0.5	3	Some random: 1715993992050.773
2	2	1	4	Some random: 1715993992052.301
1	2	0.5	3	Some random: 1715993992052.940
24	1	24	25	Some random: 1715993992076.353
13	13	1	26	Some random: 1715993992054.503
100	10	10	110	Some random: 1715993992145.016
2	2	1	4	Some random: 1715993992056.209
5	0	0	5	Some random: 1715993992062.783
0	1	0	1	Some random: 1715993992057.960
5	5	1	10	Some random: 1715993992058.882
2	2	1	4	Some random: 1715993992059.256
-2	2	-1	0	Some random: 1715993992057.618
8	9	0.89	17	Some random: 1715993992061.591

15	1	15	16	Some random: 1715993992077.135
1	1	1	2	Some random: 1715993992064.326
1	1	1	2	Some random: 1715993992064.506
1	1	1	2	Some random: 1715993992065.775
1	2	0.5	3	Some random: 1715993992065.812
45	5	9	50	Some random: 1715993992107.568
2	2	1	4	Some random: 1715993992067.513
2	2	1	4	Some random: 1715993992069.077
5	10	0.5	15	Some random: 1715993992065.957
3	2	1.5	5	Some random: 1715993992072.511
11	13	0.85	24	Some random: 1715993992070.298
22	22	1	44	Some random: 1715993992073.443
2	2	1	4	Some random: 1715993992073.585
1	2	0.5	3	Some random: 1715993992073.385
5	5	1	10	Some random: 1715993992076.144
6	125	0.05	131	Some random: 1715993991957.756
23	32 312	0	32335	Some random: 1715993959788.066
1	1	1	2	Some random: 1715993992078.084
1	2	0.5	3	Some random: 1715993992078.240
2	2	1	4	Some random: 1715993992080.821
100	200	0.5	300	Some random: 1715993991981.670
2	2	1	4	Some random: 1715993992081.107
3	5	0.6	8	Some random: 1715993992080.091
3	4	0.75	7	Some random: 1715993992082.479
1	2	0.5	3	Some random: 1715993992082.323
1	2	0.5	3	Some random: 1715993992083.839
5	8	0.62	13	Some random: 1715993992083.353
3	8	0.38	11	Some random: 1715993992082.292
1	1	1	2	Some random: 1715993992088.237
5	3	1.67	8	Some random: 1715993992091.148
10	5	2	15	Some random: 1715993992094.466
1	2	0.5	3	Some random: 1715993992089.920
2	2	1	4	Some random: 1715993992091.983
2	123	0.02	125	Some random: 1715993991970.370

480	60	8	540	Some random: 1715993992512.386
300	20	15	320	Some random: 1715993992374.117
123	321	0.38	444	Some random: 1715993991897.730
6	509	0.01	515	Some random: 1715993991593.430
10	5	2	15	Some random: 1715993992102.406
((entry.f1) + (entry.f2))	((entry.f1) + (entry.f2))	Expression: [(ROUND((entry.f1) + (entry.f2)) / ((entry.f1) + (entry.f2)),2))] could not be calculated, Unknown operator '[' at position 9	Expression: (((entry.f1) + (entry.f2)) + ((entry.f1) + (entry.f2))) could not be calculated, Unknown operator '[' at position 3	Expression: [CONCAT("Some random: ", ((RANDOM() + ((entry.f1) + (entry.f2)) - ((entry.f1) + (entry.f2)) + NOW())))] could not be calculated, Unknown operator '[' at position 39
100	200	0.5	300	Some random: 1715993992003.017
3	4	0.75	7	Some random: 1715993992103.833
1	2	0.5	3	Some random: 1715993992104.001
3	3	1	6	Some random: 1715993992106.505
2	5	0.4	7	Some random: 1715993992104.246
25.00	25.00	1	50	Some random: 1715993992108.703
555	666	0.83	1221	Some random: 1715993991998.319
2	4	0.5	6	Some random: 1715993992108.963
2	3	0.67	5	Some random: 1715993992109.215
2	4	0.5	6	Some random: 1715993992109.884
1	1	1	2	Some random: 1715993992112.549
7,8	3,6	7	Expression: [(7,8 + 3,6)] could not be calculated, Too many numbers or variables	Some random: 7.94217748757544351715993992119
55	40	1.38	95	Some random: 1715993992130.844
2	8	0.25	10	Some random: 1715993992110.575

Storage format for this demo:

```
<ac:structured-macro ac:macro-id="e44fca82-119b-4e79-b70a-1d521f0f13e3" ac:name="confiorm" ac:schema-version="1">
  <ac:parameter ac:name="formName">myform1</ac:parameter>
  <ac:rich-text-body>
    <ac:structured-macro ac:macro-id="9930843c-b7ee-493d-b93d-6c91cf13da7a" ac:name="confiorm-entry-register" ac:schema-version="1">
      <ac:parameter ac:name="embedded">true</ac:parameter>
      <ac:rich-text-body>
        <p>
          <br/>
        </p>
      </ac:rich-text-body>
    </ac:structured-macro>
  </p>
```

```

        <ac:structured-macro ac:macro-id="c1d112a1-145d-4822-9263-57e7f1d95202" ac:name="confiform-field-
definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">f1</ac:parameter>
        <ac:parameter ac:name="fieldLabel">f1</ac:parameter>
        <ac:parameter ac:name="type">number</ac:parameter>
        <ac:parameter ac:name="required">true</ac:parameter>
        </ac:structured-macro>
    </p>
    <p>
        <ac:structured-macro ac:macro-id="5b285aed-c238-42cb-8fb0-74b504f51edd" ac:name="confiform-field-
definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">f2</ac:parameter>
        <ac:parameter ac:name="fieldLabel">f2</ac:parameter>
        <ac:parameter ac:name="type">number</ac:parameter>
        <ac:parameter ac:name="required">true</ac:parameter>
        </ac:structured-macro>
    </p>
    <p>
        <ac:structured-macro ac:macro-id="9981f97b-d090-401d-95d2-b19d45a4df9f" ac:name="confiform-field-
definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">myformula1</ac:parameter>
        <ac:parameter ac:name="fieldLabel">My formula 1</ac:parameter>
        <ac:parameter ac:name="extras">([entry.f1] + [entry.f2])</ac:parameter>
        <ac:parameter ac:name="type">formula</ac:parameter>
        </ac:structured-macro>
    </p>
    <p>
        <ac:structured-macro ac:macro-id="f6b5b3d7-3462-4068-b23c-2ccee3789f66" ac:name="confiform-field-
definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">myformula2</ac:parameter>
        <ac:parameter ac:name="fieldLabel">My formula 2</ac:parameter>
        <ac:parameter ac:name="extras">CONCAT("Some random: ", ((RANDOM() + [entry.f1] - [entry.f2] + NOW()))<
/ac:parameter>
        <ac:parameter ac:name="type">formula</ac:parameter>
        </ac:structured-macro>
    </p>
</ac:rich-text-body>
</ac:structured-macro>
<p>Stored data</p>
<ac:structured-macro ac:macro-id="1d573801-7d23-412f-aale-c3c04d1fcc63" ac:name="confiform-table" ac:schema-
version="1">
    <ac:parameter ac:name="formName">myform1</ac:parameter>
    <ac:rich-text-body>
        <p>
            <ac:structured-macro ac:macro-id="dc71204e-5341-4543-af04-45ab036c827d" ac:name="confiform-field" ac:
schema-version="1">
                <ac:parameter ac:name="fieldName">f1</ac:parameter>
            </ac:structured-macro>
        </p>
        <p>
            <ac:structured-macro ac:macro-id="12af5c9f-b5bb-475e-b9c1-470d60b3bd6c" ac:name="confiform-field" ac:
schema-version="1">
                <ac:parameter ac:name="fieldName">f2</ac:parameter>
            </ac:structured-macro>
        </p>
        <p>
            <ac:structured-macro ac:macro-id="0c76996a-654f-4b77-848b-9d8b2212a85f" ac:name="confiform-field" ac:
schema-version="1">
                <ac:parameter ac:name="fieldName">myformula1</ac:parameter>
            </ac:structured-macro>
        </p>
        <p>
            <ac:structured-macro ac:macro-id="9a8cf996-366b-4a8b-be43-da01d32dc449" ac:name="confiform-field" ac:
schema-version="1">
                <ac:parameter ac:name="fieldName">myformula2</ac:parameter>
            </ac:structured-macro>
        </p>
    </ac:rich-text-body>
</ac:structured-macro>

```

