QGIS Application - Bug report #6775
The values of a field created with field calculator (float) are rounded when they should have decimal places

2012-11-27 02:49 PM - Filipe Dias

Status:	Closed		
Priority:	Severe/Regression		
Assignee:	Nathan Woodrow		
Category:	GUI		
Affected QGIS version:	master	**Regression?:**	No
Operating System:	Linux Ubuntu	**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	wontfix
Crashes QGIS or corrupts data:		**Copied to github as #:**	15926

Description

I have table with two fields with the exact same values (1 through 25). Field1 is an integer and Field 2 is a float. If I create a Field 3 using the field calculator by typing Field1/25 or Field2/25 I get different results.

Field 3 = Field1/25 is populated by rounded values (the decimal places are not preserved)

Field 3 = Field2/25 has the correct values, with the respective decimal places

This doesnt happen on QGIS 1.8.

History

#1 - 2012-11-27 08:47 PM - Nathan Woodrow

- Resolution set to wontfix

- Status changed from Open to Closed

While it seems a bit strange this is the correct behavior. The expression engine in master, which is different to 1.8, works different and doesn't convert the result to decimal if both sides are integer. See https://github.com/qgis/Quantum-GIS/blob/master/src/core/qgsexpression.h#L80

Two ways around this:

    Field1/25.00

or

    toreal(Field1)/25

I prefer the first one as it's cleaner.

#2 - 2012-11-28 01:32 AM - Filipe Dias

I see. From the user point of view I think this is more likely to be seen as a bug, than as the correct behaviour. When I ask QGIS to "do the math" and specify that I want the result to have decimal places (float field), I expect it to do it correctly and show the decimal places without workarounds. In any case, this behaviour should be explained somewhere.