

Final grade rounding appears incorrect

It has been a misconception that PowerGrade does not round correctly for the final percent.

Example 1:

If a student has a final percent of 92.45, then you change the preferences to display 1 decimal place instead of 2, then it will display 92.4. The result appears that it should be 92.5.

But let's take a closer look.

Let's say for example you have an assignment worth 49 points and the student gets 45.3 points on that assignment.

This equals 92.4489796

If you look at the full value of this number you can see that rounding it to one decimal place should result in 92.4.

The reason why it appeared incorrect before was because we were looking at the number which had already been rounded by 2. When rounded to two decimal places it had rounded up the second digit to 5 where when you round it to one or three decimal places the second digit does not round and remains as 4.

Example 2:

Setup:

Y1 is 50% from the S1 Final Grade and 50% from the S2 Final Grade as specified in the Final Grade Setup

When the preferences are set to 5 decimal places these are the values:

S1= 88.8

S2= 83.97059

This averages out display Y1 as 86.3853

This is correct.

But now you set it to round to zero decimal places.

By looking at 86.3853 it appears it should round to 86 because the first decimal place is a 3.

But in this case the Y1 will display as 87%.

87 is actually correct and this is why:

Because Y1 is based on Final Grades, it is using the rounded versions of those final grades.

So after rounding to zero places, these are the values used:

S1=89

S2=84

When 89 is averaged with 84 the correct answer is 87.

(The Preference setting is located in the PowerGrade Preferences under the General tab under the Final Grade Options.)