

# How to set up grade calculations based on existing activities

403 Bowen Zhang Thu, Mar 20, 2025 Gradebook

3381 0

## Edit calculation

### Grade item

Item name	Group assignment w1
Calculation	$=[[group]]*0.3+[[individual]]*0.7$

[Save changes](#) [Cancel](#)

#### ID numbers

- Tom in Wonderland
  - Course total
  - Assignment 1
  - Group assignment-contribution assessment: [[group]]
  - Individual assignment: [[individual]]
  - Attendance
  - Group assignment w1**

An example of calculating the grade items

## Overview:

Occasionally, an assessment of a module involves multiple learning activities. Teacher may need to combine the grades of several activities into a single score by applying different weighting. This guide will demonstrate how to calculate the grades from different activities via a formula to display the desired grades in the Gradebook.

## What to know:

A grade item may correspond to an existing activity, such as Assignment, Quiz, or Workshop within the Gradebook. It represents a unit (usually an activity) through which students are assessed via a grade or mark. As such, a grade item serves either as a container for grades or a collection of settings that govern these grades. These settings affect how the grades are calculated and displayed in the gradebook reports and exports.

## Table of Contents

- Step 1: Navigate to Gradebook setup
- Step 2: Add a grade item
- Step 3: Name the Grade item
- Step 4: Edit calculation of the grade item
- Step 5: Name the affected activities
- Step 6: Input the calculated formula for the affected activities
- Step 7: Calculated grades in Gradebook

### Step 1: Navigate to Gradebook setup

In Grades section of the Module, select "Gradebook setup" from the Grader report dropdown menu.

## Tom in Wonderland: View: Grader report

Course Settings Participants Grades Reports More ▾

Tom in Wonderland					
	ID number	Email address	Department	Assignment 1	Group assignment-contrib
		LM.connect@xjtu.edu.cn		-	
		student8@nonmail.com		66.83	
	110000817	Peicheng.Liu@xjtu.edu.cn	Learning Mall	-	
			Overall Average	52.35	

### Step 2: Add a grade item

Create a blank grade item by clicking the button at the top center.

Name	Weights	Max grade	Actions
Tom in Wonderland	-		Edit
Assignment 1	25.0	100.00	Edit
Group assignment-contribution assessment	25.0	100.00	Edit
Individual assignment	25.0	100.00	Edit
Attendance	25.0	100.00	Edit

### Step 3: Name the Grade item

Assign a name in the "Item name" section, which will later help students will be able to locate this activity. Then save the changes at the bottom of this page.

## ▼ Grade item

Item name	Group assignment w1		
Show more...			
Grade type	?	Value 	
Scale	?	Use no scale	
Maximum grade	?	100.00	
Minimum grade	?	0.00	
<input type="checkbox"/> Hidden 			
<input type="checkbox"/> Locked 			

  

## ▼ Parent category

<input type="checkbox"/> Weight adjusted 			
Weight	?	0.0	
<input type="checkbox"/> Extra credit 			

 **Save changes** **Cancel**

## Step 4: Edit calculation of the grade item

Return to the Gradebook setup interface. Click the "Edit" button and choose "Edit calculation" from the dropdown menu to modify the calculation for this grade item.

  Individual assignment	<input type="checkbox"/> 20.0	100.00	Edit 
  Attendance	<input type="checkbox"/> 20.0	100.00	Edit 
 <input type="checkbox"/> Group assignment w1	<input type="checkbox"/> 20.0	100.00	
  Course total		500.00	 Edit settings Edit calculation  Delete Duplicate Hide

## Step 5: Name the affected activities

Before calculating any activities, make sure you name each activity in the provided box next to each activity and click "Add ID numbers" to save these names.

## Edit calculation

### Grade item

Item name

Group assignment w1

Calculation

[Save changes](#) [Cancel](#)

### ID numbers

- Tom in Wonderland
  - Course total
  - Assignment 1
  - Group assignment-contribution assessment:
  - Individual assignment:
  - Attendance
  - Group assignment w1

[Add ID numbers](#)



Now, you should be able to see that the activities involved have been saved, each with its own ID name.

## Edit calculation

### Grade item

Item name

Group assignment w1

Calculation

[Save changes](#) [Cancel](#)

### ID numbers

- Tom in Wonderland
  - Course total
  - Assignment 1
  - Group assignment-contribution assessment:
  - Individual assignment:
  - Attendance
  - Group assignment w1

[Add ID numbers](#)

## Step 6: Input the calculated formula for the affected activities

Grade calculations follow the pattern of formulas in popular spreadsheet programs. They start with an equal (=) sign, and use common mathematical operators and functions to produce a single numerical output. This output is then used as the computed value for the grade item you are editing.

## Edit calculation

### ▼ Grade item

Item name

Group assignment w1

Calculation



=[[group]]\*0.3+[[individual]]\*0.7

Save changes

Cancel

### ID numbers

- Tom in Wonderland
  - Course total
  - Assignment 1
  - Group assignment-contribution assessment: [[group]]
  - Individual assignment: [[individual]]
  - Attendance
  - **Group assignment w1**

Every grade calculation must start with an equal sign (=) followed by an expression using operators and functions supported by the system. All common arithmetic operators are supported.

addition, using the plus (+) sign

subtraction, using the minus (-) sign

multiplication, using the asterisk (\*) character

division, using the slash (/) character

### Step 7: Calculated grades in Gradebook

The added Grade item now display the grades with calculated weighting for the affected activities in the Gradebook.

#### Grader report

All participants: 8/8

First name  All  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  Q  R  S  T  U  V  W  X  Y  Z

Last name  All  A  B  C  D  E  F  G  H  I  J  K  L  M  N  O  P  Q  R  S  T  U  V  W  X  Y  Z

Tom in Wonderland -						
First name / Last name	ID number	Email address	Department	Group assignment-contrib...	Individual assignment	Group assignment w1
Lc LM connect	<input type="text"/>	LM.connect@xjtu.edu.cn		- <input type="text"/>	-	-
SE Student Eight	<input type="text"/>	student8@nonmail.com		59.44 <input type="text"/>	70.00	66.83
PL Peicheng Liu	<input type="text"/>	110000817 Peicheng.Liu@xjtu.edu.cn	Learning Mall	- <input type="text"/>	-	-
SN Student Nine	<input type="text"/>	student9@nonmail.com		- <input type="text"/>	-	-
SS Student Seven	<input type="text"/>	student7@nonmail.com		60.33 <input type="text"/>	60.00	60.10
SS Student Six	<input type="text"/>	taromist@163.com		64.85 <input type="text"/>	90.00	82.46
ST Student Ten	<input type="text"/>	student10@nonmail.com		- <input type="text"/>	-	-
YZ Yixuan Zhang	<input type="text"/>	110000806 Yixuan.Zhang@xjtu.edu.cn	Learning Mall	0.00 <input type="text"/>	-	0.00
Overall average				46.15	73.33	52.35

#### Tips:

Make sure the affected activities are shown in the Gradebook, otherwise the newly added Grade item will not display as expected.

Online URL: <https://knowledgebase.xjtu.edu.cn/article/how-to-set-up-grade-calculations-based-on-existing-activities-403.html>