

### <u>Common Inquiry:</u> *How do I grade and report student responses?*

H-ITT CRS gives you many methods to grade and report student performance based on their clicker responses to questions. Grading and reporting these data depends on what you are using the H-ITT System for.

## **Section 1: Grading**

There are basically two ways to "grade" based on how you use the system:

- 1. The <u>points based grading</u> is used to enhance student involvement and will promote attendance, preparedness and class participation. Using the points method you do not necessarily need to "grade" questions you ask; points are given for just participating.
- 2. The <u>percentage based grading</u> is typically used where you want to give a letter or percent grade to students based on a specific test or quiz you give. And where there are right/wrong gradable answers you need to assign correct answer(s) for the questions.

**Grading the question**, or rather assigning a correct answer to a question you pose can be done before, during, or after the question is asked.

<u>1. Assigning a correct answer before</u> you deliver the question(s) requires that you have pre-made the questions, which is typical for tests and quizzes. There are 2 ways you can do this based on how you deliver the questions to your students:

- A. If you give a paper based test or quiz, you can create an "answer key" (see below about the answer key) along with it and apply this to the test or quiz from the Analyzers Answer key window, click on the Key icon button, and browse to and open your answer key.
- B. If you want to display the content to your class with a computer projector you can use Qgen2 to pre-author the questions with the correct answer(s).

2. Assigning a correct answer during the time you are asking the question is done in Acquisition. You can use your computer keyboard or your instructors remote to do this, and can be done during the questioning (answer along with the students), or when the histogram for that question is displayed. 3. Assigning a correct answer after or modifying correct answers from an Acquisition session can be can be done in Analyzer from the answer key window in two ways: You can create/modify and apply an answer key to a class file at anytime, or you can use the question grader to modify/assign correct answers to specific question plus modify the individual question/answers points values.

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<b>Abou</b> An exa	t the Ans ample of ar	wer key: n "answer_	lt is either a key.txt" file	a plain text (answer ke	or csv spreadsheet. ay for a class file set of 4 questions) is:		
1,C		MC type: C is the correct answer for question 1					
2	,A,3		MC type:	A and C ar	re correct answers for question 2		
3	,12.5		MD type:	12.5 is the	correct answer for question 3		
4	,12.5,12.50	)	MD type:	12.5 and 1	2.50 are correct answers for question 4		
An exa	ample of "a	nswers.cs	/" spreadsh	eet file cre	ated in Excel		
	1	С			Same Answer key shown above (i.e. C is correct		
	2	Α	3		answer for Q1, etc), created in MS Excel, and saved		
	3	12.5			as a CSV file.		
	4	12.5	12.50				

Viewing and editing your grading is done from the Analyzer, Answer Key window.

In this example there were 3	H-ITT 2.1.1 Copyrig	ht 2001-2009 H-IT Order File E-mail D E 🕞 🕞 🕼 🕅	T LLC _Test, Me rop Questions The Bir The	Help			_ 🗆 X
Acquisition sessions where questions were asked	S Answer Key	tudent Points   👸 Si	udent Responses 🛛 🖬	Question Analysis	間 Roster	ident Respor	<u>1ses ==&gt;</u>
	Class	Question	Responses	Correct Answer(s)	Points	Average Points	YTD Points
Click have to load on anower key for	1 Fri	1	5(3, <b>2</b> )	B	3	2.20	3
	25 Sep 09	2 🖬	5(4, <b>1</b> )	D	з	2.60	6
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	Ealth Rey Grade A	4 🖬	5(3, <mark>2</mark> )	<u>C</u>	3	2.20	12
		5 🖬	5(5, <mark>0</mark> )	A.B	з	3.00	15
Click the question number to bring up		_	Class Total:		15	12.20	
	2 Fri	1	5(5, <mark>0</mark> )	<u>12</u>	3	3.00	18
the question grader.	25 Sep 09	<u>≁ 2 📕</u>	5(3, <mark>2</mark> )	<u>45.2</u>	З	2.20	21
Or access the question grader by	Edit key Grade X	3	5(5, <mark>0</mark> )	213	3	3.00	24
	0.5		Class Total:		9	8.20	
clicking the correct answer.	3 Fri 25 Con 00	1	5(0,5)	{empty}	1	1.00	25
9	10:22 AM	2	5(0,5)	{empty}	1	1.00	26
	Edit key Grade X	<u>3</u>	5(0, <mark>5</mark> )	<u>{empty}</u>	1	1.00	27
			Class Total:		3	3.00	
	Click on Ouestion	number to regra	de		27	23.40	

## About Point based grading and participation factors:

With the points system students are awarded points for both participation and achievements. The Analyzer is your gradebook and keeps a running total for each student throughout the semester. This running total of points earned vs. total points available are shown in the Analyzer>Students points window.

The point values are based on if the questions asked have a correct answer or not. The following describes the default point values for both cases. (Note that you can assign any points values you want from the Options>Answer Key pallet)

When the question does not have a correct answer it is worth 1 point, and any answer from a student is given 1 point, no answer gets 0 points.

When the question has a correct answer it is worth 3 points, and awarded as: 3 points if the student answers correctly, one point if they answer it incorrect, and 0 points for no answer.

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This "points system" has proven very effective in promoting student involvement and grades, however the effectiveness is directly related to how much this "participation" factor will apply to their final grade in the class.

Which brings up the question "what portion of the students grades should you give for participation?" If you already include a participation factor in grades, then it's easy, but you may want to adjust it since every student can participate. If you don't include a participation factor in your current grading scheme, you will be amazed at how much student performance will increase when it's included, and they know they are accountable on a daily basis.

Some typical participation factors account for between 5% and 50% of the student's final grade. As with most grading principals you can "slope" the results so the highest scores are "A or B", and the lowest are "D or F". The Analyzer provides tools to do this by dropping the lowest X number of questions, which selectively does this for each individual student. As you adjust or slope the grades you can see the overall average results from the Answer key window, or see individual scores from the Student Points window. Both areas provide you the insight to appropriately slope grading to apply a fair participation factor to each student.

### About Percentage based grading:

For percentage grades, change the global points values to 1 point for a correct answer, and 0 points for or an incorrect (or no) answer from the Options>Answer Key pull down menu.



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# **Section 2: Reporting**

There are many options available for reporting student's scores depending on what you want to report, and how you want to report it.

#### Select what you want to report:

You select the class, or classes that you want to report from the Answer key in Analyzer, by clicking the GRADE button.

When the button is red the class is excluded from being reported, and when it's green, the questions in the class will be included in the report.

In the example to the right, only the first class grades will be included in the report.

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Class	Question	Responses	Correct Answer(s)	Points	Average Points	YTD Points
1 Fri	1 🖬	5(3, <mark>2</mark> )	B	3	2.20	3
25 Sep 09	<u>2</u> 🖬	5(4, <b>1</b> )	D	3	2.60	6
10:17 AM	<u>3</u> 🖬	5(3, <mark>2</mark> )	<u>C</u>	3	2.20	9
Eurch Key Grade A	<u>4</u>	5(3, <mark>2</mark> )	<u>c</u>	3	2.20	12
	<u>5</u> 🖬	5(5, <mark>0</mark> )	<u>A,B</u>	3	3.00	15
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3 Fri 25 Sep 09 10:22 AM Edit key Grade X	3 Questions i	n this class. <u>Ena</u> l	ble grading			
		Course Total	:	15	12.20	
Click on Question	n number to regra	de				
						11.

Once you have selected the classes that you want to report, view the student's grades from the Student Points window.

In the example to the right the students grades for the single class #1 above is shown.

To see any student's individual performance, click on the student's name.

Sort grades, highest to lowest or vise versa, click on the blue Total Points text.

## Exporting the grades

Clicking on the Export to file link, brings up a browser where you can name and save the export. Also you can choose either a text format or a csv (spreadsheet) format.

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*	Name		Ra	aw .	Max	Percent	Fraction		
1	Mary Smith			11	15	73.3%	0.733		
2	John Doe			13	15	86.7%	0.867		
3	<u>Mike Thoma</u>	<u>s</u>		11	15	73.3%	0.733		
4	Bill Williams			15	15	100.0%	1.000		
5	Jane Doe			11	15	73.3%	0.733		
Ma	x Possible Poir	nts		15	15	100.0%	1.000	3	
Ma	x Score		15.	00		100.00%	1.000	2	
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Clicking the export to clipboard saves this same	John Doe	13	15	86.70%	0.867
information to your clip board that you can paste into	Mike Thomas	11	15	73.30%	0.733
any program that accepts the paste function.	Bill Williams	15	15	100.00%	1
	Jane Doe	11	15	73.30%	0.733
The Options>Student Points pallet lets you set up	Max Possible Points	15	15	100.00%	1

what you want to see in this answer key window, and can expand to show points and grades by question and or by class.

The example spreadsheet to the right shows the default export format.

## Set up the grades report for your needs:

The Options>Export Points pallet lets you set up your grade report to include various items in the

exported report. This is useful to set up the grades export to match the information needed for import into many standard gradebook applications.

Checking here adds the column description header.

Clicking here enables various columns of information (under Columns – display options) you may want to include.

If you choose WebCT/Blackboard, the grades export's first column will be the students WebCT/Blackboard ID number. Note that your roster must include this ID number for each student.

Include column headings Exporting to file Prompt for filename everytime Overwrite file if it exists Default filename grades.csv Field delimeter Students points are formatted as they appear on student points page unless the option below is checked Use these options when exporting ==>	Columns - display options Columns to display Student ID Remote ID(5) Classes attended Classes missed Total points by Total only Format name for Blackboard Rows - display options Put max possible points in Display points for remote IDs not found in roster at er
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