



## Analytics in eCollege Gradebook

Statistics are available in eCollege for Exams and User Activity.

1. To access exam or quiz statistics:
  - A. Click on the **Gradebook**.
  - B. **Select Gradebook View** of week/unit of exam/quiz's location
  - C. Click the **Go** button
  - D. Click the **Graph icon** above the word Exam

The screenshot displays the eCollege Gradebook interface. At the top, a dark blue navigation bar contains icons for Course Admin, Gradebook (highlighted with a red box), Email, Live, Doc Sharing, Dropbox, and Journal. Below this, the 'Gradebook' section is visible, with tabs for 'View Gradebook', 'User Activity', and 'Setup Gradebook & Rubrics'. A dropdown menu for 'Select Gradebook View' is set to 'Week 8' and is highlighted with a red box, with a 'Go' button next to it. Below the dropdown, there are options for 'Sort By: Last Name' and 'Display: 40 rows per page'. The main content area is titled 'WEEK 8' and contains a table with columns for 'Points Possible', 'Other course assignments listed here.', 'Exam' (with a graph icon highlighted by a red box), and 'Item Summary'.



2. On the **Exam Statistics** page, the **Exam Level Statistics** are visible. To access additional content:

- A. Click the **Download** link to download the statistics.
- B. Click the **Definitions & Example** link to view definitions of terms used in the exam statistics feature
- C. Click on the **Question Level Statistics** to view the results for the individual questions.

### EXAM STATISTICS

[Download](#)

[Definitions & Examples](#)

[Exam Level Statistics](#)

[Question Level Statistics](#)

Highest Score:	87.5 pts. (89.74%)	Number of Respondents:	20
Lowest Score:	45 pts. (46.15%)	Number of Questions:	40
Range:	42.5 pts.	Points Possible:	97.5 pts.
Mean:	75.55 pts.		
Median:	78.75 pts.		
Mode:	82.5 pts.		
Difficulty (Mean P-Value):	0.72		
Standard Deviation:	10.46		
Semi-Interquartile Range:	6.63		

**Note:** Statistics based on the sum of points achieved on questions.

	Points Achieved	Frequency	Percentile
Frequency Distribution:	87.5 pts.	2 (10%)	95
	85 pts.	2 (10%)	85
	82.5 pts.	4 (20%)	70
	80 pts.	2 (10%)	55
	77.5 pts.	2 (10%)	45
	70 pts.	3 (15%)	32.5
	68.5 pts.	1 (5%)	22.5
	67.5 pts.	2 (10%)	15
	62.5 pts.	1 (5%)	7.5
	45 pts.	1 (5%)	2.5



### 3. Download Feature:

- A. **Exam Level Statistics and Question Level Statistics** are included in document
- B. Click the **Save** link to save the statistics in your preferred location.

#### EXAM STATISTICS

 Save

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### 4. Definitions & Example Feature

#### QUESTION STATISTIC DEFINITIONS AND EXAMPLES:

Number of Respondents:	The number of students who took the exam.
Number of Questions:	The number of exam questions available to students on the exam. (Note: If exam pools were used, the question-level statistics section may include more questions than displayed here because statistics display for all of the questions in the pool.)
Points Possible:	The maximum number of points a student can achieve on the exam; calculated by summing the points possible for all questions in the exam. (Note: If you choose to "curve" the exam by modifying the Points Possible <i>within the Gradebook</i> , any changes you make are reflected in the Points Possible displayed in Exam Statistics. Modifying the Points Possible <i>in the Author view of the exam itself</i> (i.e., the Exam Builder) will display changes in Exam Statistics.)
Highest Score:	The highest number of points achieved by any student on the exam.
Lowest Score:	The lowest number of points achieved by any student on the exam.
Range:	The span between the lowest and highest achieved scores on the exam.  <i>Example:</i> If the lowest score on an exam was 15 and the highest score was 90, the range is 75.
Mean:	The average score on the exam.  <i>Example:</i> 50 students take an exam. At the end of the exam, all of the students' scores added together equal 500. To find the Mean Score, take the total for the test (500) and divide by the number of students who took the test (50). The result (500/50 = 10) gives you the mean or average score for the test.
Median:	The "middle value" if the exam scores are listed in rank order. If there are two central values, the median is simply the average of these values. The median can be a useful statistic when dealing with highly skewed data.  <i>Example:</i> If the scores were 93, 87, 75, 73, 72, 68, 67 and 52, the median is 72.5, or exactly the physical midpoint of the range.



## 5. Question Level Statistics provides:

- A. Statistics on **number and percentage of answers** selected by students
- B. **Difficulty and Discrimination** information and **Essay and Short Answer Questions**

statistics.

### QUESTION STATISTICS

[Download](#)

[Definitions & Examples](#)

[Exam Level Statistics](#)

**Question Level Statistics**

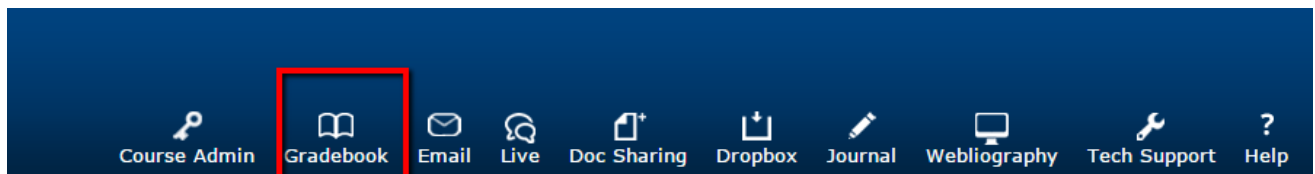
Page 1 Questions

Page: **1**

1.	The nurse is bathing an 80-year-old man and notices that his skin is wrinkled, thin, lax, and dry. This finding would be related to which factor?
# of Respondents:	20
Frequency:	0 (0%) Increased vascularity of the skin in the elderly
	0 (0%) Increased numbers of sweat and sebaceous glands in the elderly
	1 (5%) An increase in elastin and a decrease in subcutaneous fat in the elderly
	19 (95%) ✓ An increased loss of elastin and a decrease in subcutaneous fat in the elderly
2.	The nurse is performing a skin assessment on a client and notes a round, elevated, fluid-filled mass approximately 0.4 cm in size. The nurse would correctly document this finding as which of the following?
# of Respondents:	20
Frequency:	8 (40%) ✓ Vesicle
	1 (5%) Macule
	11 (55%) Papule
	0 (0%) Tumor
	4 (20%) firm and nontender
p1: 18.	The nurse is assessing the eyes of an 82-year-old client. Which of the following findings are expected by the nurse based on the client's age?
# of Respondents:	20
Frequency:	2 (10%) The client is easily able to read from a paper held at close range without corrective glasses.
	14 (70%) ✓ The pupillary light reflex is slower bilaterally
	4 (20%) There is a noticeable increase in fat within the orbit of the eye.
	0 (0%) The client states that she feels her tear production has increased over the years.
p1: 24.	When assessing the pupillary light reflex the nurse should use which technique?
# of Respondents:	20
Frequency:	6 (30%) shine a penlight from directly in front of the patient and inspect for pupillary constriction
	0 (0%) ask the patient to follow the penlight in eight directions and observe for bilateral pupil constriction
	14 (70%) ✓ shine a light across the pupil from the side and observe for direct and consensual pupillary constriction
	0 (0%) ask the patient to focus on a distant object. Then ask the patient to follow the penlight to about 7cm from the nose
	20 (100%) shine a light across the pupil from the side and observe for direct and consensual pupillary constriction
p1: 29.	When examining the ear with otoscope, the nurse notes that the tympanic membrane should appear:
# of Respondents:	20
Frequency:	0 (0%) light pink with a slight bulge
	20 (100%) ✓ pearly gray and slightly concave
	0 (0%) pulled in at the base of the cone of light
	0 (0%) whitish with a small fleck of light in the superior position
p1: 30.	The nursing is performing an otoscopic examination on an adult client and is unable to visualize the tympanic membrane. The nurse should perform which of the following steps to better visualize this structure?
# of Respondents:	20
Frequency:	20 (100%) ✓ Pull the pinna up and back, then reinsert the otoscope
	0 (0%) Tell the client to move away from the speculum if they experience any pain as the otoscope is advanced.
	0 (0%) Reinsert the otoscope quickly and press against both sides of the inner auditory canal.
	0 (0%) Pull the pinna down and back, then reinsert the otoscope.

## 6. User Activity Statistics in Gradebook

- A. Click on **Gradebook**



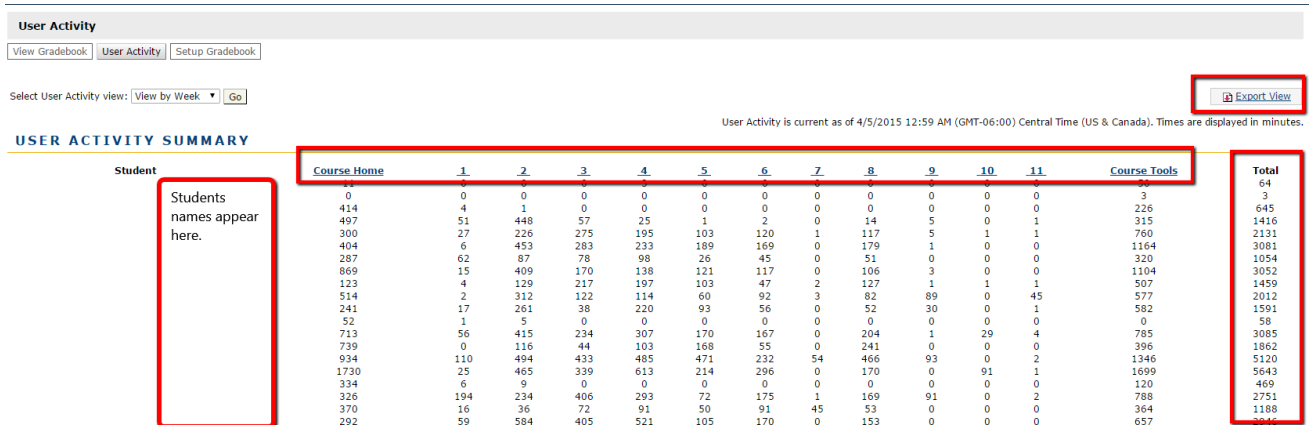
B. Click on **User Activity**



The screenshot shows the top navigation bar with 'Course Admin', 'Gradebook', and 'Email' icons. Below it, the 'Gradebook' section contains buttons for 'View Gradebook', 'User Activity', and 'Setup Gradebook & Rubrics'. The 'User Activity' button is highlighted with a red box. Below the buttons is a 'Select Gradebook View:' dropdown menu set to 'Grades To Date' with a 'Go' button.

C. Students' names appear in the left field next to **Student**.

1. The amount of time spent in each **unit**, including **Course Home** and **Course Tools** is visible in minutes.
2. The total number of minutes spent in the course is in the far right column named **Total**.
3. The information can be exported to an Excel worksheet by clicking the **Export View** button.



The screenshot shows the 'User Activity' section with a table titled 'USER ACTIVITY SUMMARY'. The table has columns for 'Student', 'Course Home', units 1 through 11, 'Course Tools', and 'Total'. The 'Student' column is highlighted with a red box and contains the text 'Students names appear here.'. The 'Export View' button is also highlighted with a red box. The table data is as follows:

Student	Course Home	1	2	3	4	5	6	7	8	9	10	11	Course Tools	Total
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
414	4	1	0	0	0	0	0	0	0	0	0	0	3	226
497	51	448	57	25	1	2	0	14	5	0	1		315	2131
300	27	226	275	195	103	120	1	117	5	1	1		760	3081
404	6	453	283	233	189	169	0	179	1	0	0		1164	1054
287	62	87	78	98	26	45	0	51	0	0	0		320	3052
869	15	409	170	138	121	117	0	106	3	0	0		1104	1459
123	4	129	217	197	103	47	2	127	1	1	1		507	2012
514	2	312	122	114	60	92	3	82	89	0	45		577	1591
241	17	261	38	220	93	56	0	52	30	0	1		582	58
52	1	5	0	0	0	0	0	0	0	0	0		0	3085
713	56	415	234	307	170	167	0	204	1	29	4		785	1862
739	0	116	44	103	168	55	0	241	0	0	0		396	5120
934	110	494	433	485	471	232	54	466	93	0	2		1346	1699
1730	25	465	339	613	214	296	0	170	0	91	1		1699	469
334	6	9	0	0	0	0	0	0	0	0	0		120	788
326	194	234	406	293	72	175	1	169	91	0	2		788	2751
370	16	36	72	91	50	91	45	53	0	0	0		364	1188
292	59	584	405	521	105	170	0	153	0	0	0		657	3846



E. To see an individual person's activity, click on the **person's name**.

1. To see time spent on each item in a week or unit click on the **+ sign** to open the week or unit.
2. To download the information click on the **Export View** button.

**User Activity**

View Gradebook | **User Activity** | Setup Gradebook

<< [back](#)

Select User Activity view: View by Week

**USER ACTIVITY :** Person's Name Export View

User Activity is current as of 4/5/2015 12:59 AM (GMT-06:00) Central Time (US & Canada). Times are displayed in minutes.

[-] Course Home	6 hours, 54 mins
[-] Week 1	4 mins
[-] Home Page	2 mins
[-] Assignments/Assessments	2 mins
[-] Course Critique	0 min
[-] Questions and Answers Forum	0 min
[-] Week 2	1 mins
[-] Week 3	0 min
[-] Week 4	0 min
[-] Week 5	0 min
[-] Week 6	0 min
[-] Week 7	0 min
[-] Week 8	0 min
[-] Week 9	0 min
[-] Week 10	0 min
[-] Week 11	0 min
[-] Course Tools	3 hours, 46 mins

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