

Creating a Quiz Summary Table

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Quiz 3 Summary Table

Question	Answered	Page	Question	Answered	Page
1		9	5		11
2(a)		9	6(a)		11
2(b)(i)		9	6(b)(i)		11
3		10	7		11
4(a)		10	8		11
4(b)(i)		10			

1. Introduction

This feature of [AeB](#) creates “Quiz Summary Tables,” useful to the student if the quiz is long, spanning many pages. The student may skip over some problems, and the end of the quiz, a Quiz Summary Table can be provided to remind the student which questions were answered and which are not. The table can optionally provide markup information, that is, after the student has pressed the “End Quiz” button and the the “Corrections” button, the table can indicated which problems were marked correct, which were marked wrong, and which the student received partial credit for. The table can optionally provide the number of points assigned for each problem.

For details on the commands used here, see section on creating quiz summary tables in the [AeB Manual](#).

2. The Demo Quizzes

We begin with a simple quiz to illustrate the basic commands. To create a ‘Quiz Summary Table,’ you must use the `exerquiz` option `usesumrytbls`. This inputs all the code necessary to support the creation of the tables. The basic command for inserting the table is `\displaySumryTbl`. The recommended placement of this table is after the last `\end{questions}` and before the `\end{quiz}`.

The `\displaySumryTbl`, to operate correctly, must go on a a page with no questions on it; there is an open page event that populates the checkboxes, when you view the page containing the table, the table is populated.

Begin Quiz Quiz 1 Solve each of the following, passing is 100%.

1. (3^{pts}) The answer to the following is true.


True False

2. (4^{pts}) The answer to the following is true.

True False

3. (5^{pts}) The answer to the following is true, but partial credit for Maybe.

True False Maybe

The quiz concludes on the next page 

Quiz 1 Summary Table

Question	Responded	Page
1		3
2		3
3		3

End Quiz

When corrections are made, a red border indicates the answer is wrong, a green border means the answer is correct, and a blue border the question was answered incorrectly, but partial credit was given.

The code for the above table follows.

```
\begin{center}
{\bfseries\nhnameref{\currQuiz} Summary Table}\[3pt]
\displaySumryTbl [ntables=1,showmarkup]{\currQuiz}
\end{center}
```

The optional arguments indicate that only one table (ntables=1) should be

created (the default is 2), and that the markup should be shown, the markup is what you see when you press the ‘Correct’ button.

Below, I’ve used the same code—except that I’ve removed `ntables=1` to obtain two tables side by side—to reproduce the same table, outside the `quiz` environment. This works as long as the data that `\displaySumryTbl` has not been overwritten; the data is overwritten when a new quiz (or `shortquiz`) begins.

Quiz 1 Summary Table

Question	Responded	Page	Question	Responded	Page
1		3	3		3
2		3			

You may not want to show the points when the user presses the ‘Correct’ button, just remove the `showmarkup` option from `\displaySumryTbl`. The borders are colored (green, red, or blue) as a separate feature, to remove this feature use the option `nocorrections`. The following quiz demonstrates the results by using `displaySumryTbl[nocorrections]{\currQuiz}`

We duplicate the first quiz with different options for `\displaySumryTbl`.

Begin Quiz Quiz 2 Solve each of the following, passing is 100%.

1. (3^{pts}) The answer to the following is true.


True False

2. (4^{pts}) The answer to the following is true.

True False

3. (5^{pts}) The answer to the following is true, but partial credit for Maybe.

True False Maybe

The quiz concludes on the next page 

Quiz 2 Summary Table

Question	Responded	Page
1		5
2		6
3		6

End Quiz

The table above just marks which problems the student has responded to, when the 'Correct' button is pressed, there is no change in the table, as there was with the first quiz. This was the original role this table played, just to indicate to the student which problems were not answered, later, more feature were included.

The next and last example is a quiz that I used during the developmental phase of the ‘Quiz Summary Table.’ The quiz demonstrates several things:

- Correct generation of problem number labels for nested problems.
- Correct marking of all problem types: multiple choice, multiple selection, text fill-in, math fill-in, and grouped questions.
- Moving the summary table to the front of the document (the table you see on the first page is the table for this quiz).
- The use of `\floatQuiz` to put the ‘End Quiz’ link inside a `multicol` environment.

```
\showCreditMarkup
\DeclareQuiz{demoQuiz}
\floatQuiz
```

We begin by floating the quiz, this enables me to set the beginning and ending links (or buttons) anywhere I want. We use `\startQuizHere` and `\endQuizHere` to start and end the quiz. We start the quiz in the usual location, but end it differently.

Begin Quiz Quiz 3 The following questions are a selection of question types, with nesting, to test the code that supports `\displaySummaryTbl`.

Click 'Begin Quiz' to begin the quiz, answer a subset of problems while progressing through the quiz to the final page where you will see the summary table.

► **Multiple choice questions**

1. (2^{pts}) The answer is 'No' but partial credit for 'Yes'.

Yes

No

2. Solve each of these

(a) (2^{pts}) The answer is 'Yes'

Yes

No

(b) Solve each of these

(i) (2^{pts}) The answer is 'No'

Yes

No

The quiz continues on the next page ►►

► Multiple selection questions

3. (4^{pts}) Select which are correct? (Answers 'No' and 'Maybe')

Yes

No

Maybe

4. Solve each of these

(a) (4^{pts}) Select which are correct? (Answers 'No' and 'Maybe')

Yes

No

Maybe


(b) Select which are correct?

(i) (4^{pts}) Answers 'No' and 'Maybe', lose one point for selecting 'Yes'

Yes

No

Maybe

The quiz continues on the next page 

▶ **Math fill-in questions**

5. (5^{pts}) $1 + 1 =$

6. Solve this

(a) (5^{pts}) $1 + 2 =$

(b) Solve this

(i) (5^{pts}) $1 + 2 =$

▶ **Grouped questions**

7. (6^{pts}) Compute the following cross product:

$$(3\vec{i} - 2\vec{j}) \times (\vec{i} + 5\vec{k}) = \quad \vec{i} + \quad \vec{j} + \quad \vec{k}$$

▶ **Text fill-in questions**

8. (6^{pts}) Name *one* of the two people recognized as a founder of Calculus.

The quiz concludes on the next page ►►

Before you complete your quiz by pressing ‘End Quiz’, review the list to the right. A check mark indicates that you responded to that question; otherwise, you did not respond to the question.

If you are satisfied with your answers, press ‘End Quiz’ to complete the quiz.

▶ End Quiz

When corrections are made, a red border indicates the answer is wrong, a green border means the answer is correct, and a blue border the question was answered incorrectly, but partial credit was given.

`\writeProListAux`

Write table data to aux file.

Quiz 3 Summary Table

Question	Answered	Page
1		9
2(a)		9
2(b)(i)		9
3		10
4(a)		10
4(b)(i)		10
5		11
6(a)		11
6(b)(i)		11
7		11
8		11

We need `\floatQuiz`, in this case, to put the ‘End Quiz’ inside a `multicols` environment; if you place `\end{quiz}` the you have nesting problems with L^AT_EX.

3. Putting a Quiz Summary Table Elsewhere

The command `\writeProListAux`¹ is used to save essential table data to the (L^AT_EX) aux file. The data is input back in using the `sumryTblAux` environment. The following code can be seen in the preamble of this document.

```
\optionalPageMatter{\medskip
  \begin{sumryTblAux}{demoQuiz}\small
  \renewcommand{\sumryTblQ}{\sffamily\bfseries Question}
  \renewcommand{\sumryTblR}{\sffamily\bfseries Answered}
  \renewcommand{\sumryTblP}{\sffamily\bfseries Page}
  \begin{center}
    {\normalsize\sffamily\bfseries\nhnameref{demoQuiz}
      Summary Table}\[3pt]
    \displaySumryTbl[showmarkup]{\currQuiz}
  \end{center}
  \end{sumryTblAux}
}
```

`\optionalPageMatter` is used as a convenient way of inserting content into the title page. Note use of `sumryTblAux` environment, it encloses `\displaySumryTbl` (along with some redefinitions of the column titles).

¹It was placed after the end of the questions, and before the ‘End Quiz’