

Chapter 8

Inline Questions

Prerequisites: Chapters 1 and 4

Purpose: Inline questions are a powerful question type. Inline questions are a more flexible and extensible form of free response that can include multiple response cells. In this way, they are similar to multipart questions in that they provide a shell structure in which to embed other questions. Using the Inline questions, the following question types can be constructed:

- Questions with multiple response cells like 'Fill-in-the-Blanks' questions
- All formula Question Types: Formula, Formula Mod-C, Restricted Formula, Equation, Multi-formula, n-tuple, Formula list
- Numeric Question Types: with and without required dimension units
- Multiple Choice, Non-permuting Multiple Choice
- Multiple Selection, Non-permuting Multiple Selections
- List Questions, including text or menu input styles, exact or relaxed graders, multiple correct or incorrect responses can be specified, partial credit can be defined for each response, response-specific feed back can be defined.

This Document will show you how to create these questions in both the Question Bank Editor and a text editor. This Tutorial should take about 60 minutes to complete and will cover:

- Uploading a web page
- Creating inline questions using the Question Bank Editor
- Creating inline questions using a text editor

This document can also be found online at our website: scimath.unl.edu/edu/ under the tutorials page.

Uploading a Web Page

1. Go to scimath.unl.edu/resources/Amendment.html. Once there click **FILE** then click **SAVE AS** to save it in your web browser. Use the drop down menu to make sure it is saved as: **WEB PAGE, HTML ONLY**. Save the file to your hard drive where you can easily access it. We will upload this file into the inline editor later on.

2. **Login to your class homepage.**

3. **Select QUESTION BANK EDITOR button, then select NEW.**

4. **Click the ADD TOPIC in the upper part of the window, name the topic **Inline**, and click OK.**

5. Click the ADD A QUESTION button under the **Inline** topic.
6. Change the question type to INLINE.

If you receive a permissions error complete the following steps to grant permissions to the **Inline Question Editor**:

- a. Download the permission installer when the `permissions.jar` package is offered.
 - b. Save the file to your Desktop.
 - c. Run the permission installer. Double-click the `permissions.jar` file to execute it.
 - e. When the window opens, enter the address of your class and follow the on-screen instructions through the installation process.
 - f. Close your browser and reopen to apply the permissions.
7. Label the description **Bill of Rights**. Click NEXT.

*You should see an inline editor that looks like Figure 8.1. It takes a while to load, but if you don't see it after a couple minutes, it means you probably need the latest java software which you can download from www.java.com (click the *Get It Now* button in the upper left).*

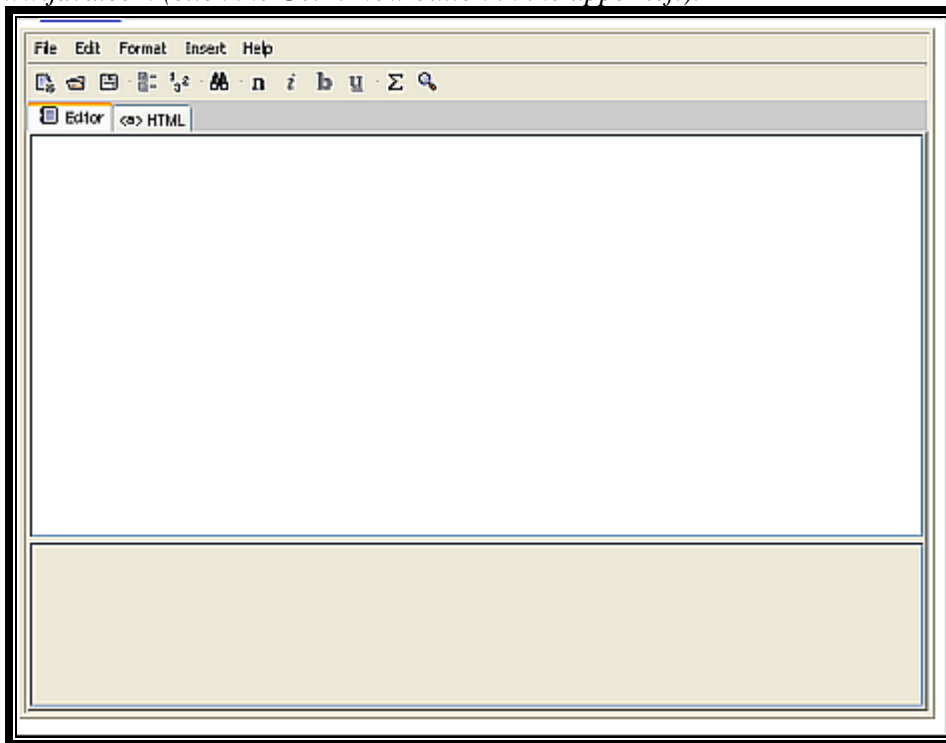


Figure 8.1: Inline Editor

8. Click the OPEN icon in the toolbar in the inline editor or select FILE then scroll down to OPEN in the inline editor toolbar.

You can click the detach button in the upper part of the window if you wish to work with the inline editor, and have it not imbedded within the browser window.

9. Browse to where you saved the first amendment file, select it, and click the OPEN button.

The Editor tab in the inline Editor should now look like the web page we saved, and under the HTML you can see the html code.

This is a very powerful tool, because now you can insert into any web page different question types.

Inline with the Question Bank Editor

1. Click on the EDITOR tab, and highlight the word **RELIGION**.
2. Click the MAKE SRO button on the toolbar.

Note: SRO or Student Response Objects, are the areas of your question that hold the answer definitions.

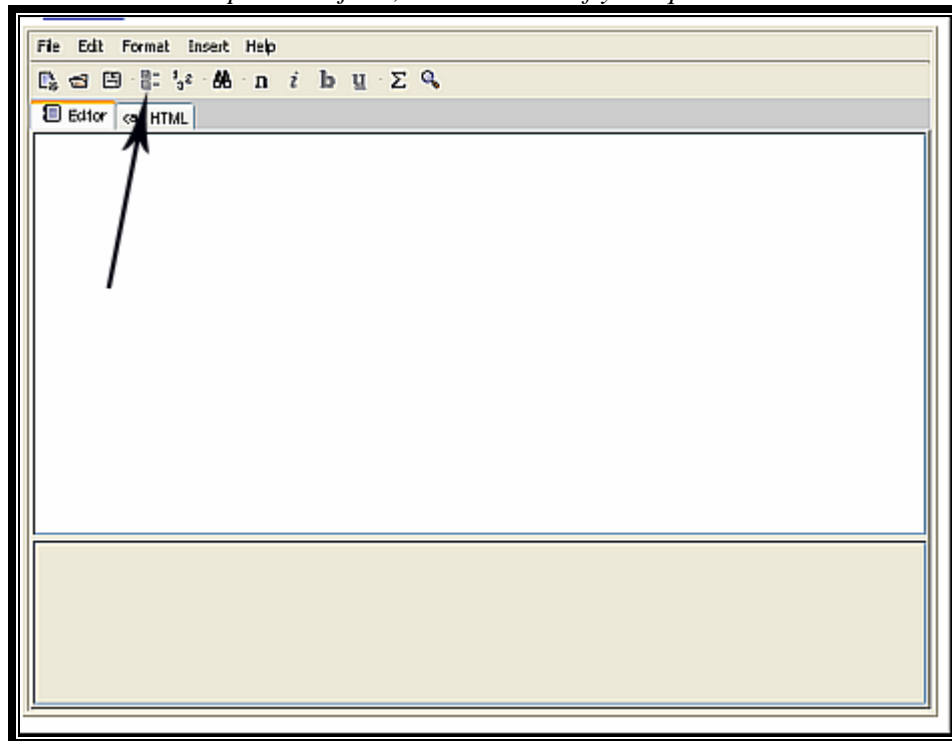


Figure 8.2: Making an SRO

3. At the bottom, you can see a grid, which is the SRO properties panel. The left most column gives the different attributes of the question and the right hand columns five options to which a particular attribute might be set. In the cell next to Question Type, select UNSET and change the mode to LIST. Click the word unset to see the drop down menu.

4. Change the display type to DROP-DOWN MENU.

This will allow the students to have a drop down menu with several different choices.

5. In the row that has NEXT ITEM type **house in the second cell. Hit ENTER.**

The first answer will already be set to religion and a 1.0 will be in the third column, indicating it as the correct answer.

6. Select NEXT ITEM and type **states in the second cell. Hit ENTER.**

7. Select NEXT ITEM and type **presidents in the second cell. Hit ENTER.**

Your window should now look like figure below.

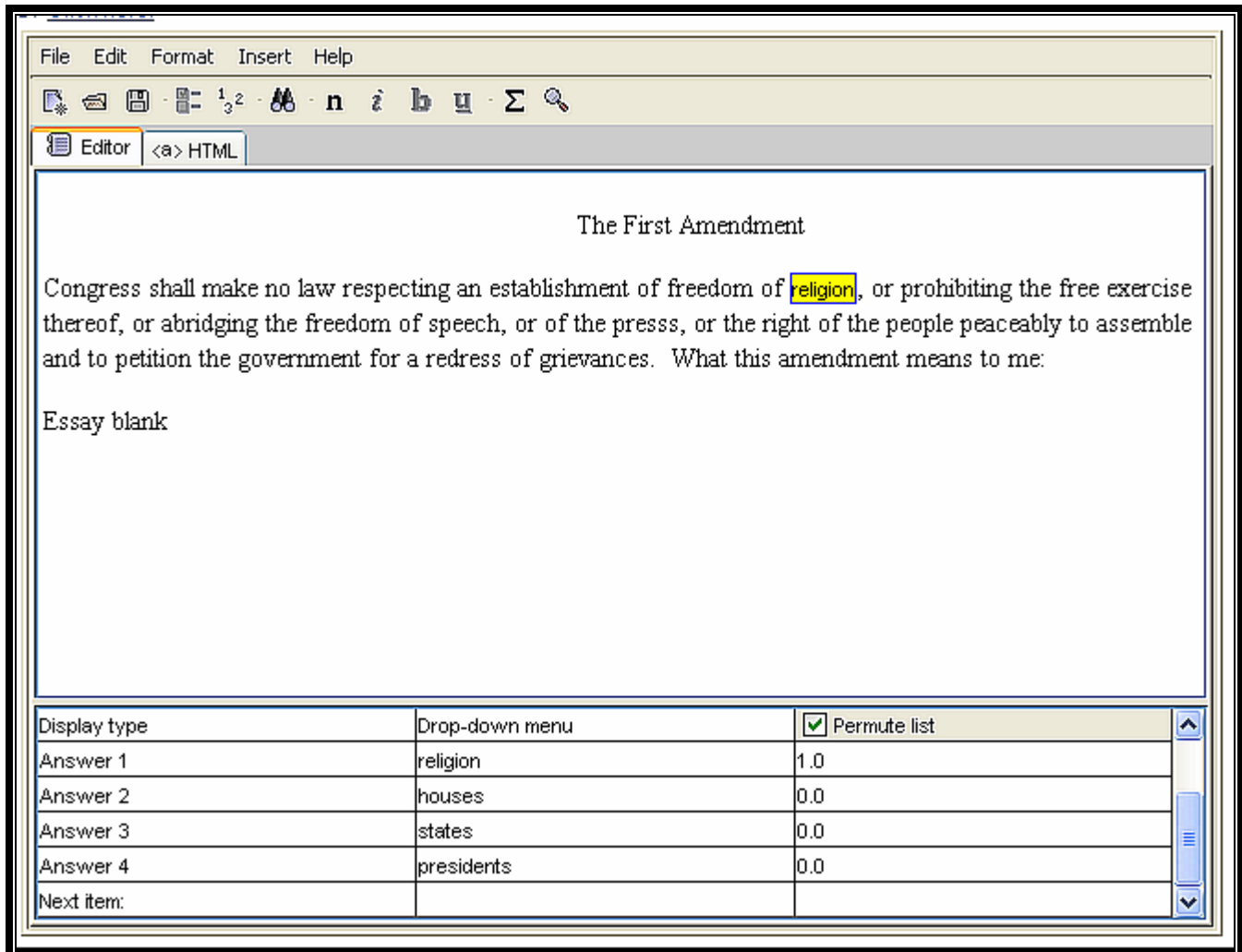


Figure 8.3: Menu Blank

8. Highlight the word **SPEECH**, and click the MAKE SRO button on the toolbar, or select EDIT then select MAKE SRO.

9. Change the mode (near the bottom of the editor window) to **LIST**.

The display type should be set automatically to text field, and the first answer set to speech.

10. In the cell to the right of next item, type **press**, and change the rightmost column to a **1**, and hit ENTER.

This will enable the question to accept both press and speech as correct answers.

11. Highlight the word **PRESS**, and click the MAKE SRO button on the toolbar, or select EDIT then select MAKE SRO.

12. Change the mode (near the bottom of the editor window) to LIST.

The display type should be set automatically to text field, and the first answer set to press.

13. In the cell to the right of next item, type **speech, and change the rightmost column to a **1**, and hit ENTER.**

This will set the question to accept both press and speech as correct answers

14. Highlight **ASSEMBLE and click the MAKE SRO button.**

15. Change the mode to MULTIPLE CHOICE near the bottom of the editor.

The first choice should automatically be set to assemble, and it should be selected as the correct answer.

16. Set the permute choices cell to PERMUTING.

This way the order of the choices will change every time.

17. Add the next choices by clicking into the cell to the right of the next choice and entering the following:

fish
defend themselves
yell fire
abstain

Your window should now look like figure on next page.

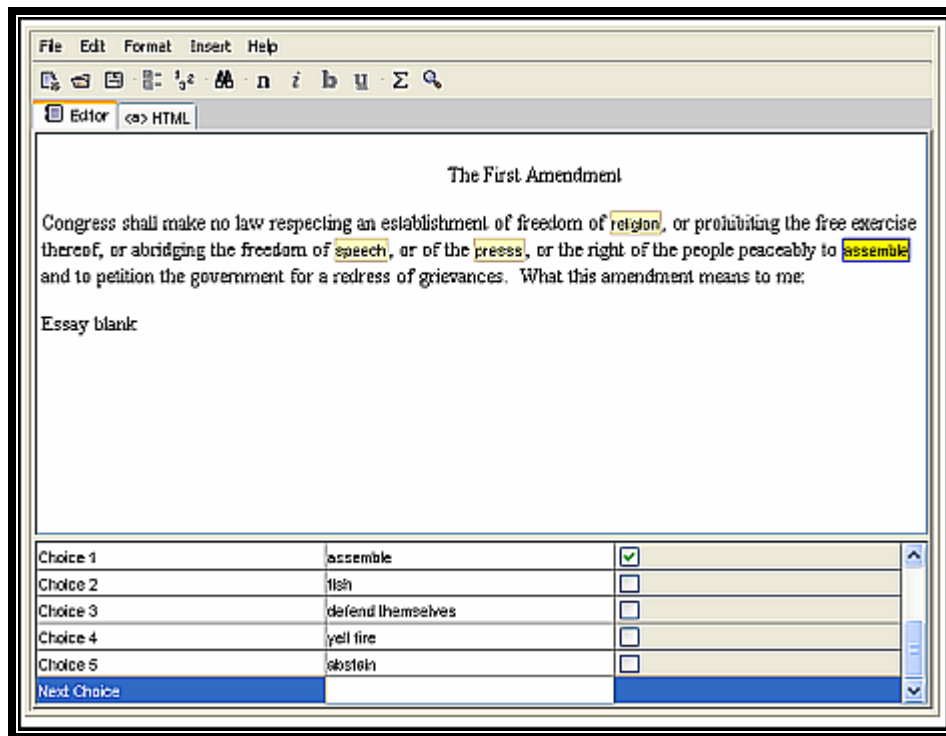


Figure 8.4: Inline Question

18. Highlight ESSAY BLANK, and click MAKE SRO.

19. In the Question Type cell scroll down to select ESSAY.

The inline editor will set defaults for you that work fine.

20. Click the FINISH button at the top of the screen.

20. Try the question out to see how it works.

21. Click the INSTALL BANK button and call the testbank **Bill of Rights**.

Inline with a Text Editor

While it is simple to use the Question Bank Editor, the Text Editor has some advantages:

- You can save at any point, meaning you can stop halfway through making a question and save your work.
- No bugs. The inline editor is very new, so has some bugs in it that might force you to redo a question when you are halfway through.
- Ease in editing. While it is very hard in the Question Bank Editor to unset a SRO that you have made, in a text editor it is very simple.
- You can do many more advanced things in a text editor that you can't do in the Question Bank Editor.

1. Open the Text Editor (i.e.notepad).

Select Start->Run and type notepad in the box, or select Start-> All programs-> accessories->notepad.

2. Type into the Text Editor:

```
qu.1.topic=Bill of Rights@
qu.1.1.name=Seventh Amendment@
qu.1.1.mode=inline@
qu.1.1.editing=usehtml@
```

You should recognize what each of these lines do already. You can avoid typing by getting the text from <http://scimath.unl.edu/resources/rights.txt>

3. Next type into the Text Editor:

```
qu.1.1.question=
<p align="center"><strong>Amendment #<1></strong></p> Excessive bail shall not be
required, nor excessive fines imposed, nor <br><2><br>punishments inflicted.@
```

This is the part that will be displayed for the student. The <1> and <2> are where questions will be inserted for the student to answer. We will make the <1> a formula question, and at the <2> we will have a multiple choice question.

4. Enter into the Text Editor:

```
qu.1.1.part.1.mode=formula@
qu.1.1.part.1.question=xx@
qu.1.1.part.1.answer=7@
```

All of the fields of each part of an inline question are the same as if you were creating the questions independently. You will notice that the question just has an xx. It does not matter what you type into that field as it will not be shown in the inline question. The .part.1 denotes that this question will be inserted at the <1>.

5. Enter into the Text Editor:

```
qu.1.1.part.2.mode=multiple choice@  
qu.1.1.part.2.question=xx@  
qu.1.1.part.2.choice.1=cruel and unusual@  
qu.1.1.part.2.choice.2=full life@  
qu.1.1.part.2.choice.3=just and deserved@  
qu.1.1.part.2.choice.4=maximum@  
qu.1.1.part.2.choice.5=humorous but demeaning@  
qu.1.1.part.2.answer=1@
```

Notice the fields are again almost the same as if you were creating an independent multipart question. Again the .part.2 denotes that this question will be inserted at the <2>.

6. Go to your class website and upload the testbank to make sure it works.

7. Be sure to install the question bank as discussed in previous chapters.

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