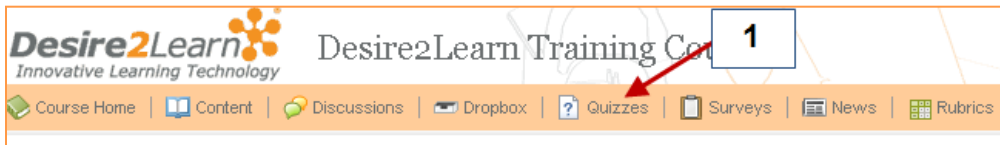


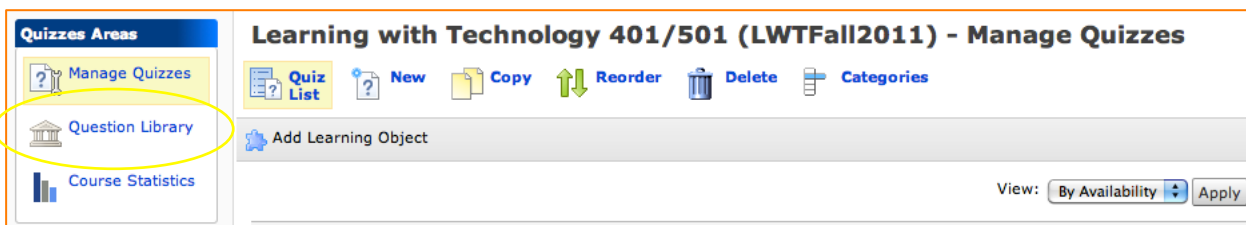
This step-by-step guide will demonstrate how to create Arithmetic Questions within the **Quizzes** tool in Desire2Learn (D2L).

## Quizzes: Create Questions – Arithmetic

1. Select **Quizzes**.



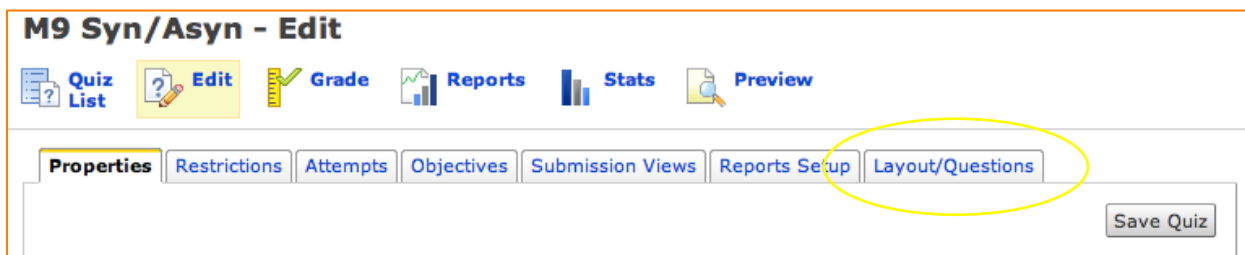
2. Select one of the following two options.
  - a. Select **Question Library** (recommended option).



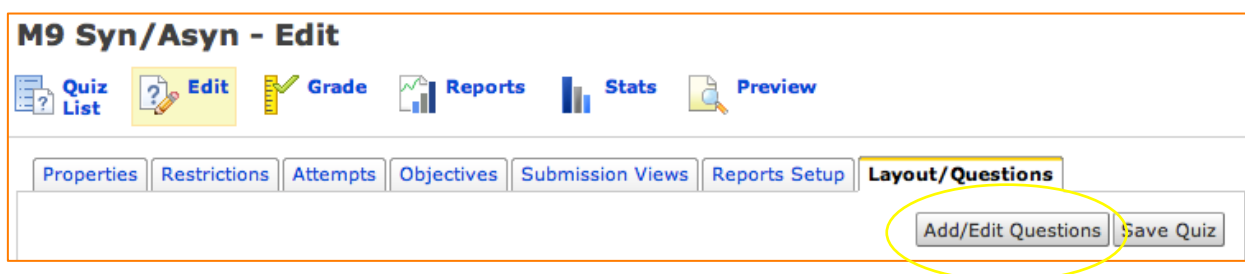
- b. Select the desired quiz.

Current Quizzes		G	Actions
<input type="checkbox"/>	<a href="#">M9 Syn/Asyn</a> (inactive) always	-	
Past Quizzes		G	Actions
<input type="checkbox"/>	<a href="#">Syllabus Quiz (This quiz has 50 questions with a 50 minute time limit)</a>	37/37	
<input type="checkbox"/>	<a href="#">M1 Quiz - Learning Management System Orientation</a> Aug 30, 2011 12:00 AM - Sep 3, 2011 11:59 PM	23/23	
<input type="checkbox"/>	<a href="#">M2 Quiz - E-Learning (May choose Tagging activity instead of quiz)</a> Sep 7, 2011 12:00 AM - Sep 10, 2011 11:59 PM	12/12	
<input type="checkbox"/>	<a href="#">M4 Quiz-APA (This is the actual quiz -- 40 questions schedule enough time for yourself)</a>	16/16	

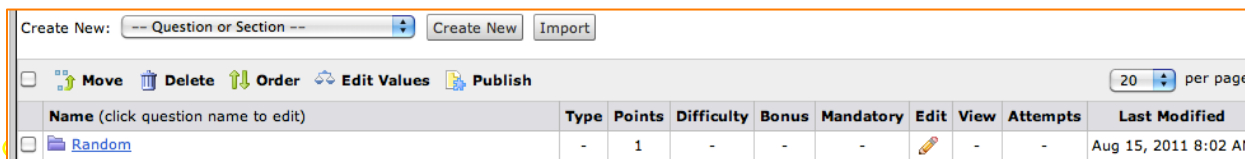
i. Select the **Layout/Questions** tab for that quiz.



ii. Select **Add/Edit Questions**.



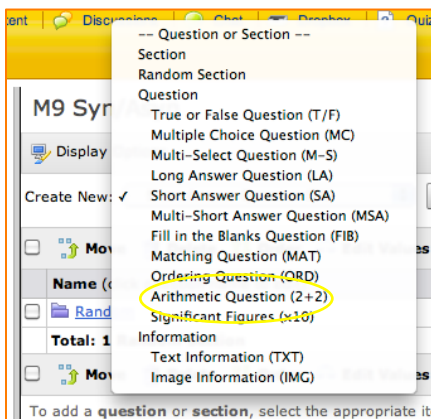
3. *Optional*: Select a **Section** into which the new question(s) will be placed.



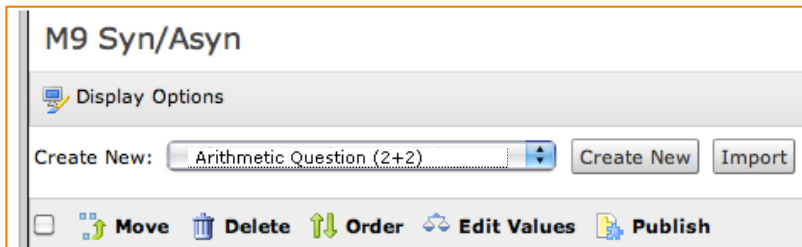
*Note*: See step-by-step guide *Quizzes: Layout/Questions Tab* on how to create sections.

**Warning**: Questions or information created within a **Random Section** cannot be copied and will be available only within that specific section.

4. Select **Arithmetic Question (2+2)** from the dropdown menu.

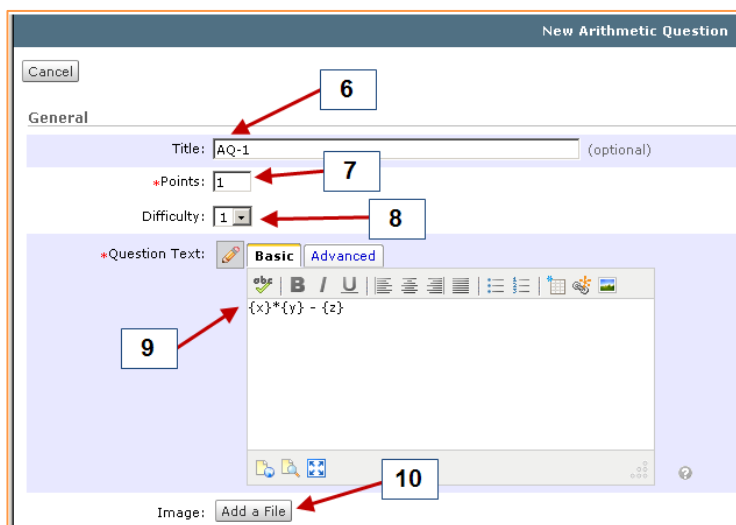


5. Select **Create New**.



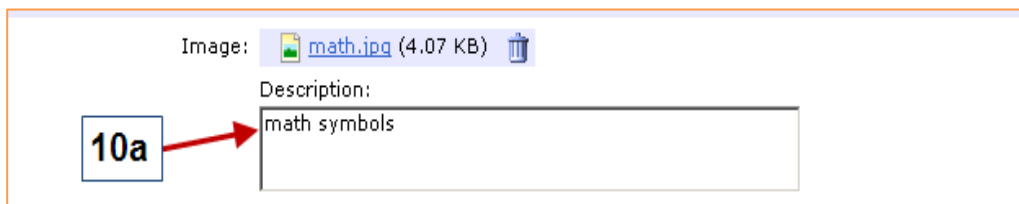
### Enter Question Information

6. *Optional*: Enter a **Title**.
7. Enter the number of **Points**.
8. *Optional*: Indicate the level of **Difficulty**.
9. Enter **Question Text**.



*Note*: If a formula is explicitly presented here, it must be repeated in the **Formula** section of the question. Each variable must be enclosed within curly brackets.

10. *Optional*: Add an image by selecting **Add a File**.
  - a. *Optional*: Enter a **Description** of the image.



### Enter Answer Information

11. Enter a **Formula** into the text box. Each variable must be enclosed within curly brackets.
12. *Optional*: Select **Answer Precision** from the dropdown menu to enter the number of decimal points required in the student solution.

*Note*: This should be less than or match the number of decimal points in the variables themselves, and should be included in the Question Text.

- a. *Optional*: Select **enforce precision**. (Answers must comply with the number of decimal points specified in order to receive credit).
13. *Optional*: Select **Tolerance** from one of the following options:
  - a. Select **units**.
    - i. Enter number of units.
  - b. Select **percent**.
    - i. Enter percentage.
14. *Optional*: Enter the unit of measurement in the **Units** box if required as part of the response.
  - a. *Optional*: Enter the **Worth** percent from the dropdown menu to be awarded for including the correct unit of measurement in the response.
15. Select one of the following **Evaluation** options:
  - a. Select **Case Insensitive**.
  - b. Select **Case Sensitive**.
  - c. Select **Regular Expression**.

*Note*: See Desire2Learn document for more information on creating and using Regular Expressions.

### Variables: Enter Specifications

16. *Optional:* Enter a number in **Add Variable** to increase the number of variables in the formula.
  - a. Select **Add Variable**.
17. Complete the following steps for each variable that is part of the formula:
  - a. Enter a **Name** for the variable (e.g., x, y, z).
  - b. Enter the **Minimum** and **Maximum** values for that variable (e.g., 1-10).
  - c. Enter the **Step** increment for each variable.
18. *Optional:* Select the **Remove Entry** icon to delete a variable entry from the equation.
19. *Optional:* Select **Test** (next to the Formula box) to verify the validity of the formula.
20. *Optional:* Enter a **Question Hint**.
21. *Optional:* Enter **Question Feedback**.

The screenshot shows the 'Variables' section of the question editor. At the top, the formula is  $\{x\}*\{y\} - \{z\}$ . Below it are settings for Answer Precision, Tolerance, Units, and Evaluation Options. The 'Variables' table is as follows:

#	Name	Min	Max	Decimal Places	Step	Remove
1	x	9	9	0		
2	y	5	5	0		
3	z	4	4	0		

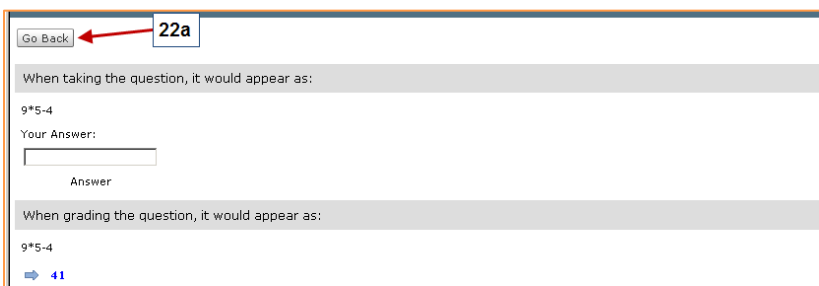
Below the table are sections for 'Question Hint' and 'Question Feedback', each with a rich text editor. Red arrows and boxes with numbers point to specific elements: 16 points to the 'Add Variable' button; 16a points to the '1' in the 'Add Variable' field; 17a points to the 'Name' column; 17b points to the 'Min' and 'Max' columns; 17c points to the 'Step' column; 18 points to the 'Remove' icons; 19 points to the 'Test' button; 20 points to the 'Question Hint' text area; and 21 points to the 'Question Feedback' text area.

### Preview and/or Save

22. *Optional:* Select **Preview** to view the question and optional feedback or hint.



a. Select **Go Back**.



23. Select one of the following Save options:

- a. Select **Save**.
- b. Select **Save and Copy** to create a copy that will open immediately for editing.
- c. Select **Save and New** to immediately open a new blank question.

