

# Best Practices on the Creation of Moodle Quizzes for your Final Exams

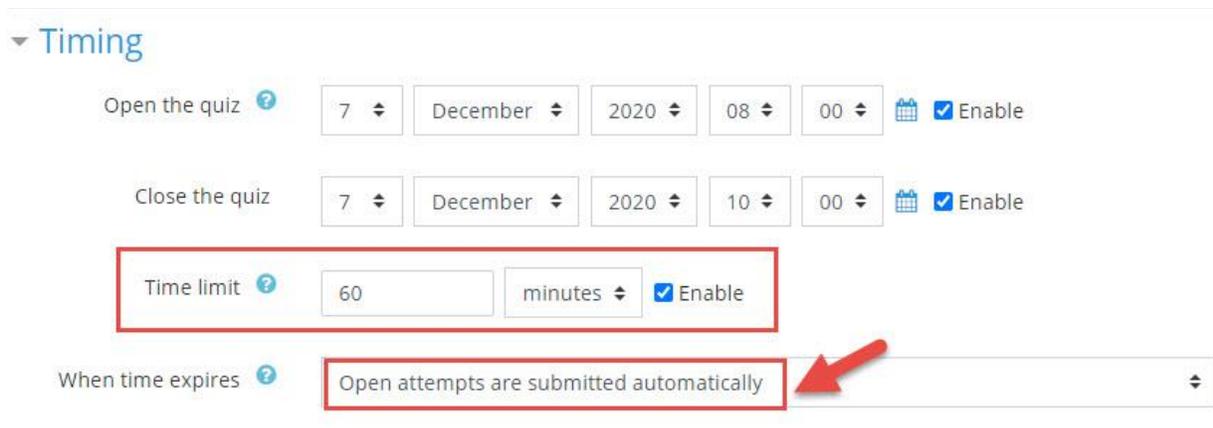
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Here are some best practices you may consider using to prevent cheating or at least minimize it during an online exam in Moodle.

## 1. Set a time limit

Enforcing a time limit on a quiz is one of the easiest steps you can take. With time as a factor, ill-prepared students will not be able to scour their textbook or pages of Google results to find an answer for every question. On the other hand, well-prepared students may have ample time to finish without using notes. They may use their extra time to refer to the material to reinforce concepts and be confident in their understanding before they even get the quiz results back. If they have time to fix a mistake and a higher score but learn something or correct a misconception in the process, that's a win.

To set a time limit, head to the Moodle Quiz activity. Check the box next to Time Limit, and choose your preferred amount of time.



Timing

Open the quiz ? 7 ↕ December ↕ 2020 ↕ 08 ↕ 00 ↕   Enable

Close the quiz 7 ↕ December ↕ 2020 ↕ 10 ↕ 00 ↕   Enable

Time limit ? 60 minutes ↕  Enable

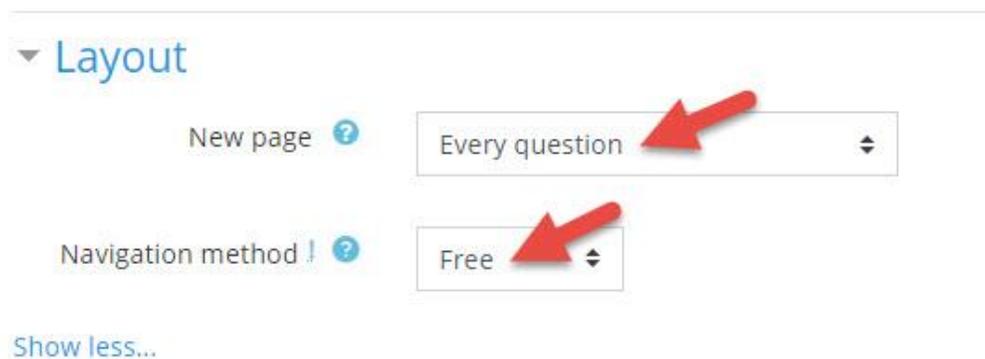
When time expires ? Open attempts are submitted automatically ↕ 

You may need to adjust and experiment to find the right amount of time per question for your subject and test writing style.

## 2. Display only one question per page

If you set a quiz to show many questions per page, students have been known to take screenshots and share the questions (though not necessarily with the correct answers). Instead, your quiz should consist of a new page for each question. While it's still possible for students to screenshot each individual question page, it's much more cumbersome, especially when the quiz has a time limit in effect. Showing one question per page is the default setting for Moodle quizzes.

You can do this in the setting of your quiz, under Layout:



## 3. Restrict review options

You can set Moodle to hide the quiz review summary until after the quiz is closed. This would keep students from reviewing questions, answers, and feedback during the quiz period. You can still allow students to view their quiz score without allowing a full review. Consider keeping any details that would allow students to share answers with their classmates hidden until the quiz period is closed. See the Review options settings in your Moodle quiz activity to configure your preferred settings. During the quiz, keep the review options unchecked. Only give access to the grade and the right answers and feedback after the quiz is closed.

## Review options ?

During the attempt

- The attempt ?
- Whether correct ?
- Marks ?
- Specific feedback ?
- General feedback ?
- Right answer ?
- Overall feedback ?

Immediately after the attempt

- The attempt
- Whether correct
- Marks
- Specific feedback
- General feedback
- Right answer
- Overall feedback

Later, while the quiz is still open

- The attempt
- Whether correct
- Marks
- Specific feedback
- General feedback
- Right answer
- Overall feedback

After the quiz is closed

- The attempt
- Whether correct
- Marks
- Specific feedback
- General feedback
- Right answer
- Overall feedback

## 4. Randomize the creation of questions

If you have a question bank in Moodle, you can benefit from the automatic creation of random questions. To do so, on the creation of your quiz questions, select “ **A Random Question**”:

## Editing quiz: Test Quiz ?

Questions: 0 | This quiz is closed

Maximum grade

[Save](#)

[Repaginate](#)

[Select multiple items](#)

Total of marks: 0.0

  Shuffle ? [Add](#)

- + a new question
- + from question bank
- + a random question

Then select the Question Bank category from which you want to have the questions chosen from and also the number of random questions to be created:

### Add a random question at the end

[Existing category](#) [New category](#)

Category

Include questions from subcategories too

Tags ? Any tags

Number of random questions

## Editing quiz: Test Quiz ?

Questions: 5 | This quiz is closed

Maximum grade

[Save](#)

[Repaginate](#)

[Select multiple items](#)

Total of marks: 5.0

The screenshot shows the Moodle quiz editing interface. At the top right, there is a 'Shuffle' checkbox with a help icon. Below this, the quiz is divided into five pages, labeled 'Page 1' through 'Page 5'. Each page contains a single question, numbered 1 through 5. The questions are all 'Random (Default for Moodle Test)' and have a grade of 1.0. Each question entry includes a plus icon, a search icon, a trash icon, and an edit icon. The 'Add' button is visible at the end of each page.

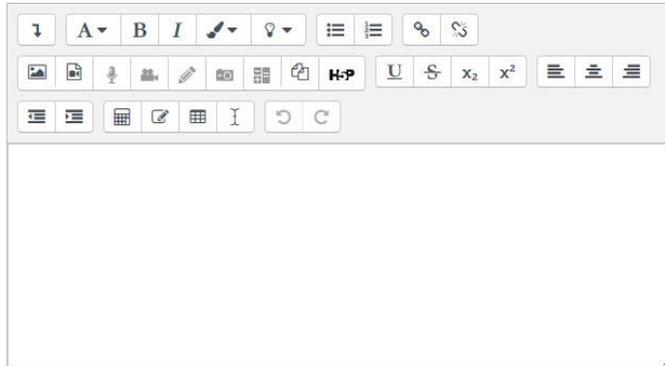
### 5. Shuffling questions (and choices in Multiple Choice questions)

If you want to shuffle the questions, select “**Shuffle within questions**” under “Question Behaviour” in your quiz settings.

The screenshot shows the 'Question behaviour' section of the Moodle quiz settings. The 'Shuffle within questions' option is highlighted with a red box and is set to 'Yes'. Below it, the 'How questions behave' option is set to 'Deferred feedback'. A 'Show more...' link is visible at the bottom of the section.

If you want to also shuffle the choices for a Multiple Choice during the creation of the quiz, select “**Shuffle the choices?**”. Remember that if you use something like “None of the above” as a choice, you cannot shuffle the choices.

General feedback ?



ID number ?

One or multiple answers?

One answer only ▾

Shuffle the choices? ?

Number the choices?

a., b., c., ... ▾

## 6. Add extra browser security

At the **Extra Restrictions on Attempts**, select “Full screen pop-up with some JavaScript security” under **Browser security**:

### ▼ Extra restrictions on attempts

Require password ? [Click to enter text](#) 

↓ ?

Require network address

Browser security ?

Full screen pop-up with some JavaScript security ▾

↓ ?

Allow quiz to be attempted offline using the mobile app

No ▾

↓ ?

Allowed browser exam keys

The quiz will only start if the student has a JavaScript-enabled web-browser

The quiz appears in a full screen popup window that covers all the other windows and has no navigation controls. Students are prevented, as far as is possible, from using facilities like copy and paste. That is:

Students cannot copy using the mouse, that is, they cannot select any part of the text

- Right mouse click is disabled
- The browser menu is disabled
- The Ctrl-X, Ctrl-C and Ctrl-V keystrokes are disabled

## Questions

If you have any questions, please send an email to **Rafael Scapin**:  
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