## Variable Numeric Set question type

#### 🖹 179 🔘 Yezi Yang 🛗 Tue, Nov 21, 2023 🖿 STEM

② 2828

Please simplify this fomula:	Please simplify this fomula:
$\int_2^7 49x dx$	$\int_2^6 36x dx$
Answer:	Answer:

An example of Variable Numeric Set question type

### Overview:

This guide will show you how to create a Variable Numeric Set question type.

### What to know:

The features of Variable Numeric Set question type is listed below.

- It supports random variables into the questions. ( As can be seen from the example above, one student see the question as the first picture, while another student see the question as the second picture. It is this question uses random variables.)
- 2. It supports variables defined by other expressions.
- 3. It supports variables with multiple pre-defined values.
- 4. It supports answer tolerance and the use of units.

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Step 1: Access the Quiz activity where you want to create the question

In your module area/course, click the link of the Quiz activity where you want to create a question.

a grade

Note: If an appropriate Quiz activity doesn't exist in your module area/course, please see Add a quiz for details of how

Step 2: Open the 'Questions' tab	

1. Open the 'Questions' tab

🗹 Example Quiz
Quiz Settings Questions Results Question bank More •
Receive a grade
<b>Opened:</b> Wednesday, 8 November 2023, 1:31 PM
Preview quiz
Attempts allowed: 1

Step 3: Add a new question

- 1. On the following page, click the 'Add' link.
- 2. Click the 'a new question' link in the dropdown menu.

Example Qu	z	
Quiz Settings Questions	Results Question bank	More 🗸
Questions Questions: 1   This quiz is open Repaginate Select multiple items		Maximum grade 100.00 Save Total of marks: 1.00
Page 1	onster is a type of? The Loch N	□ Shuffle ? Add ✓ Jess Monster Always + a new question + from question bank
		+ a random question

# Step 4: Choose a question type

1. Locate and select the Variable Numeric Set question type from the pop-up window.

2. Click the 'Add' button.



### Step 5: Settings

The settings of Variable Numeric Set question type is very similar to the 'Variable Numeric' question type. The only difference is the definition of variables (Step 8 of Guide of 'Variable Numeric' question type). Please refer to the guide for general settings: Guide of Variable Numeric Set question type .

### Step 8: Set up variables

There are still two types of variables in variables:

- 1. Calculated variable: the same with 'Variable Numeric' question type, e.g. value b.
- 2. Predefined variable: the values that can be given to the variable is unlimited, e.g. value a.

Variables	
	Predefined variable 🗢
Variable 1 🕐	<u>a</u>
Value for variant 1 ⑦	2
Value for variant 2	4
Value for variant 3	6
Value for variant 4	8
Value for variant 5	10
	Add 2 more blanks for more variants
	Add 2 more blanks for more variants
Variable 2 📀	Add 2 more blanks for more variants Calculated variable \$ b=a/2
Variable 2 ⑦ Value for variant 1 ⑦	Add 2 more blanks for more variants Calculated variable \$ b=a/2
Variable 2 ⑦ Value for variant 1 ⑦ Value for variant 2	Add 2 more blanks for more variants Calculated variable \$ b=a/2
Variable 2 ⑦ Value for variant 1 ⑦ Value for variant 2 Value for variant 3	Add 2 more blanks for more variants Calculated variable \$ b=a/2
Variable 2 ⑦ Value for variant 1 ⑦ Value for variant 2 Value for variant 3 Value for variant 4	Add 2 more blanks for more variants Calculated variable \$ b=a/2

### Tips:

The random variables, such as variable a and b, need to be covered with '[[ ]]', t he whole <u>formula</u> needs to be covered with '\$\$' before and after so that the system knows it is a random variable.

### Note:

For more information about Variable Numeric question type, please access the official documentation: https://www.open.edu/openlearncreate/mod/oucontent/view.php?id=52747&section=2.1.2

Online URL: https://knowledgebase.xjtlu.edu.cn/article/variable-numeric-set-question-type-179.html