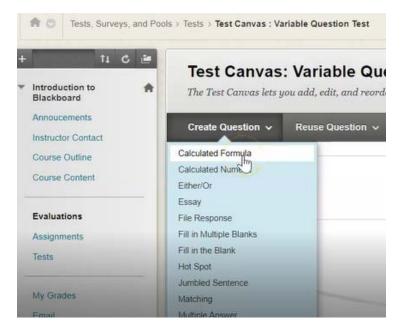
BLACKBOARD

Using Variables in your Question

CALCULATED FORMULA

Another way to create individualized test questions is by using the Calculated Formula



This question type, works anytime, but there is a formula that can be used to figure out the answer. This type of question will include variables in square brackets corresponding to variables in the formula that will be used to calculate the answer.

First variable is [x]. The second variable is [y].

6 0	uest	tion	Text																		
or t	ne to	oolb	ar, pr	ess ALT+F10	0 (PC) or AL	T+FN	+F10	(Mac)	S											
r	Т	T	Ŧ	Paragraph	~	Arial		~	3 (12pt	:)	~	≔	-	Ξ.	T		- @	Ş	i	25	~
6		0	Q	10 m =	F =		1	-	T	T_x	0	23	٠q	4.			100	1			
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-					1																
fa	sma	dl gl	ass c	f water hold	s [x] (ounces	s and a	a larg) ou	nces	s, wha	t is th	e tota	i numb	er of o	ounc	es	
a	sma	ill gi all g	ass c lasse		s [x] (ounces	s and a	a larg				/] ou	nces	s, wha	at is th	e tota	i numb	er of (ounc	es	1
a	sma	ill gl all g	ass c lasse	f water hold	s [x] (ounces	s and a	a larg				/] ou	nces	s, wha	it is th	e tota	i numb	er of (ounc	es	
a	sma	ill gl all g	ass c lasse	f water hold	s [x] (ounces	s and a	a larg				/] ou	nces	s, wha	at is th	e tota	l numb	er of (ounc	es	
a	sma	ill gl all g	ass c lasse	f water hold	s [x] (ounces	s and a	a larg				/] ou	nces	s, wha	at is th	e tota	i numb	er of (ounc	es	

So for this question, you must enter a formula below so that Black Board can determine if the student is correct or incorrect with their answer.

* Answer Formula		$\left(\begin{smallmatrix} 0 & 0 \\ 0 & 0 \end{smallmatrix}\right) \times \pi \alpha \Omega \sin \Omega \sin \Omega \circ O$
	4(y) + 3(x)	I

You can also specify an answer range. If you will accept an answer that is a little bit outside the exact amount.

Define the correct answer r	ange, plus or minus a	numeric or a percentag
broader range for partial c percentage of the total poin		
percentage office total pour	is can be accarted fro	m the points groen y or
Answer Range +/-	0.00	Numeric 🗸
Allow Partial Credit		

You can allow or partial credit. You can also indicate that units are required to get this answer correct. In this case, leave it all blank. Then click Next.



2.

У

You now must define the variables, x and y. Give each a minimum value and a maximum value. Enter the following values:

DEFINE V	ARIABLES		
Tip: you	can use scientific/exponential	notation to represent numeric values. Eg., -0.00	01 can be written as 1.0e-4 or as 1.0E-4. Spaces are
	Variable Name	Minimum Value	Maximum Value
1.	x	1	20

45

25

Decimal Places	had decimals.	if you wanted the questions to have a value that
NSWER SET OPTI	ONS	
Calculate Answers to Number of Answer Sets	Decimal V	You can also indicate that the answer has that decimal and to what value.
Correct Answer Format		
Click Calculate to go generated. Click Bac	enerate new () sets. Click Next to go	
NSWER SET OPTIC	NS	By default, Blackboard will calculate 10
Calculate Answers to	0 V Decimal V	numbers of answer sets. If you would like increase this to perhaps, 15. Just put the
Number of Answer Sets	5	new value in as seen below.
Correct Answer Format	Normal 🗸	
SWER SET OPTIO	N S	
Calculate Answers to	0 V Decimal V	
Number of Answer Sets	15	To indicate the right answer. Whether you wa it written out or in exponential form.
Correct Answer Format		

Go Back	Cancel	Calculate	Next

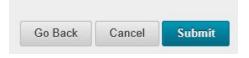
Leave it at normal and click Next.

ip: you ca	n use scientific/exponential notatio	on to represent numeric values. Eg., -0.0001 can be wr	itten as 1.0e-4 or as 1.0E-4. Spaces are not allowed.	
	×	У	Calculated Answer (0 Decimal places)	
1.	β	29	140	Remo
2.	7	34	157	Remo
3.	15	42	213	Remo
4.	17	32	179	Remo
5.	11	32	161	Remov
6.	19	28	169	Remo
7.	6	44	194	Remo
8.	14	31	166	Remo
9.	3	28	121	Remo
10.	1	42	171	Remo
11.	2	33	138	Remo

This now shows you all of the answer sets you just generated with the numbers you put in.

If there is an answer set that you do not want to use, simply click remove to remove it from the set and it will automatically add another.

When you are satisfied with your question, you then click **Submit** on the bottom right.



□ 1. Calculated Formula: If a small glass of water holds [x]&n... 💿

Success: Question edite	d. 🛞	
Question	If a small glass of water holds [x] ounces and a large glasses of water?	This question now has 15 possibilities with the values given to the student.
Answer Formula	4(y) + 3(x)	
Precision	Decimal	
Answer Range +/-	± 0	
Number of Answer Sets	15	

So when the student takes the test, there will be 15 separate questions that could be given.

QUESTION 1	10 points	Save Answer
f a small glass of water holds 2 ounces and a large glass holds 33 ounces, what is the total number of ounces in 3 small glasses and 4 large glasses of water?		
Click Save and Submit to save and submit. Click Save All Answers to save all answers. Save All Answe	rs Sav	e and Submit

So as you can see, here's the questions, with the amounts put in. When a student enters their mark and completes the test Blackboard will automatically mark every question.

et cubmiccion confir	nation: Click Cancel to	raturn to the	tact Click Ok
		return to the	test. Click OF
submit assessment.			
		ок	Cancel
		U.K.	Cancer