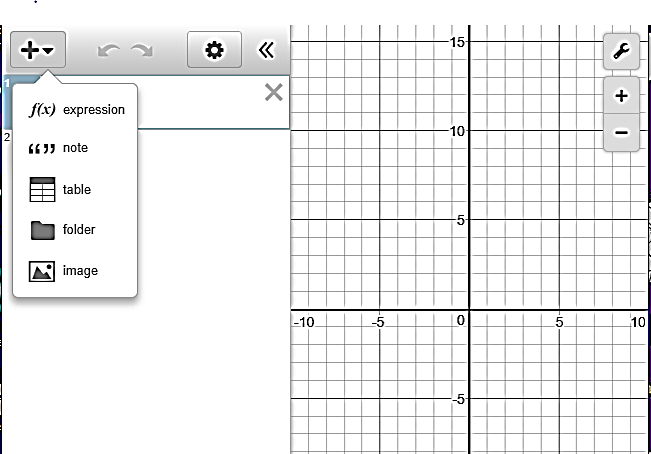
**Using Desmos to Make Connections**

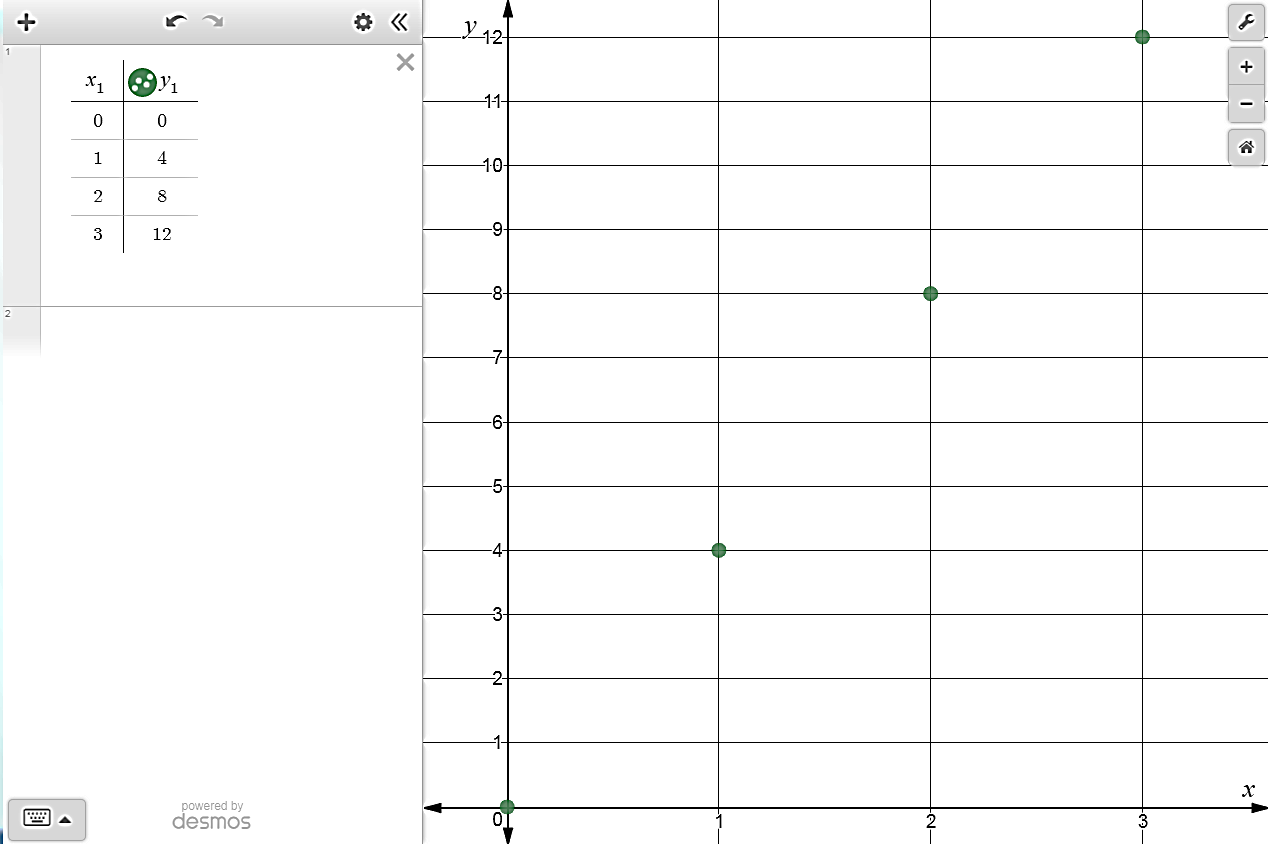
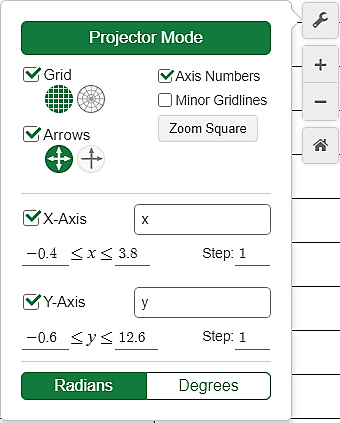


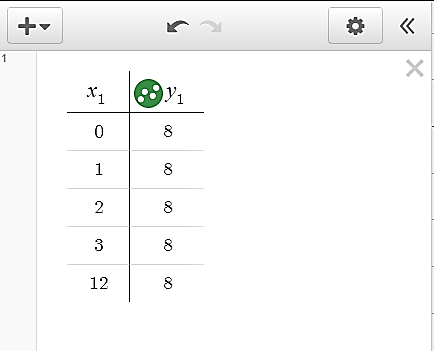
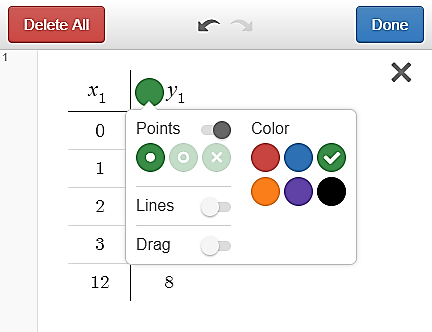
1.) Add a table to cell 1.

2.) Input data that matches the relationship between the structure

number and the number of boxes for Part I into the table.

You may want to make some edits in the settings as shown.





You can use the gear icon

to edit colors, etc.

3.) Although our relationship should be represented as a discrete set of

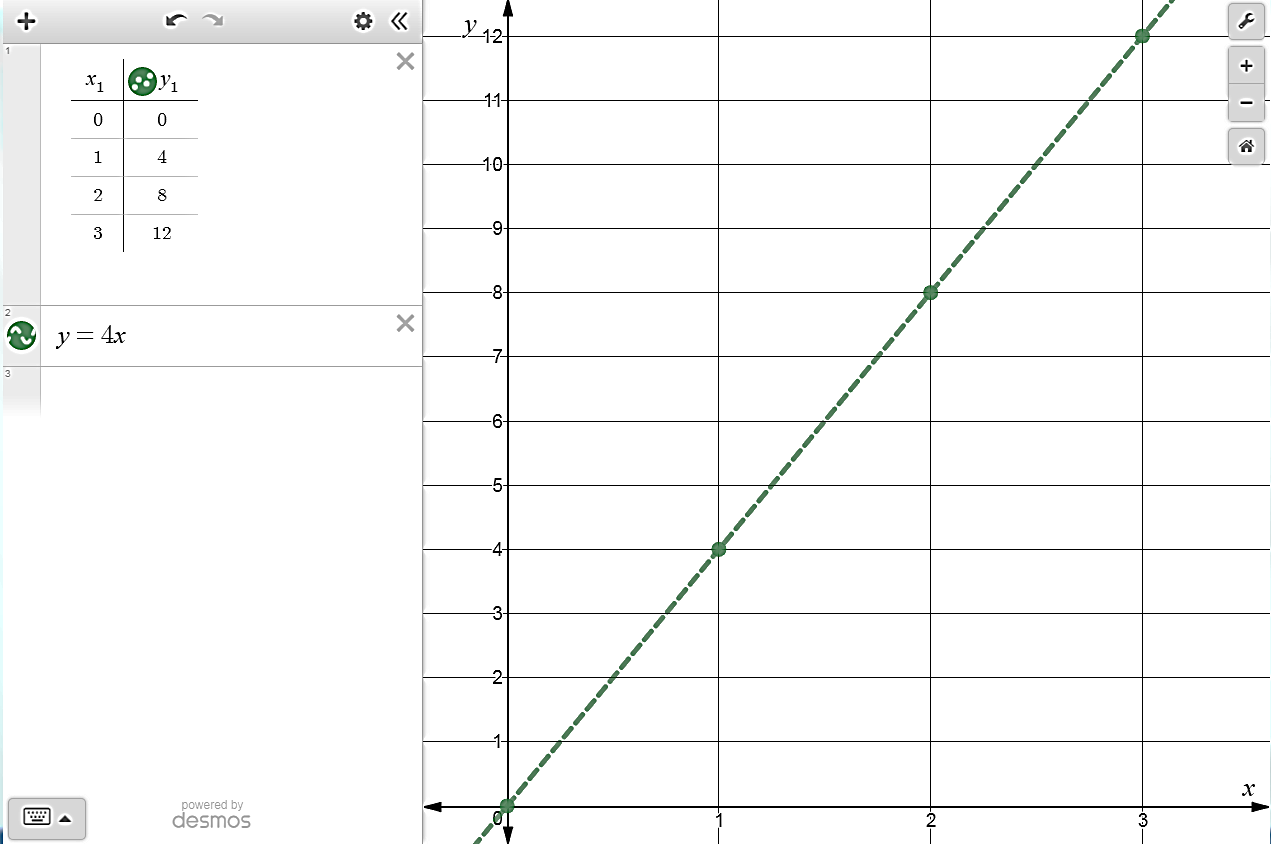
ordered pairs, we can test the rule for the relationship between the

structure number and the number of boxes in Part I by typing the

expression 4*x* or the equation *y* = 4*x* in cell 2. (You may want to

make the line dotted, by visiting the gear in the left window, as a

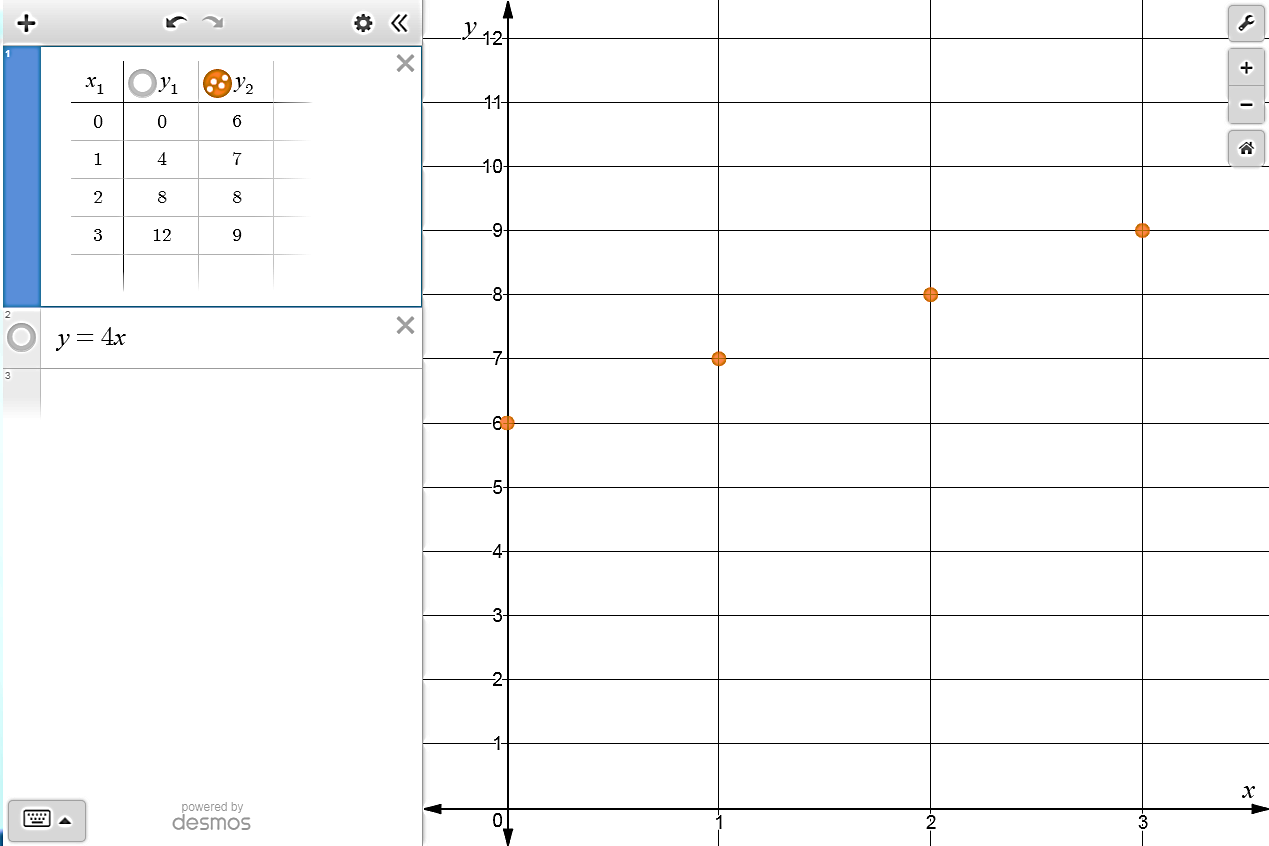
reminder that our true graph is simply a set of discrete points.)



4. Type “y2” in the next column of the table, and enter the data

representing the number of boxes in Part II.

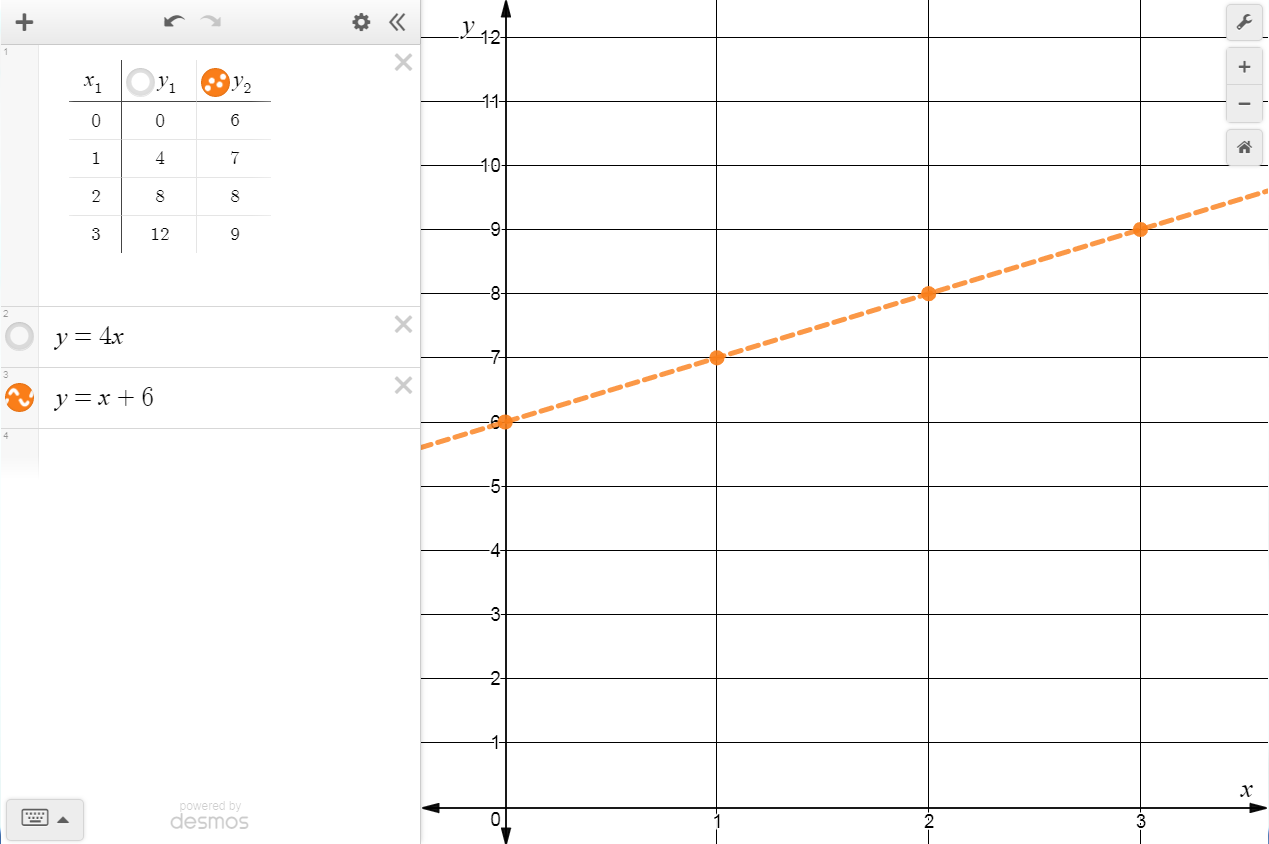
Pressing the circle beside *y*1 and the equation *y* = 4*x* will hide that data on the graph.



5.) Test the rule for the relationship between the structure number and

the number of boxes in Part II by typing the expression *x* + 6 or the

equation *y* = *x* + 6 in cell 3.



6.) Click on the empty circles beside *y*1 and the equation *y* = *x* + 6 to see

the data from both Part I and Part II together. Compare and contrast

the relationships presented in the two scenarios.

