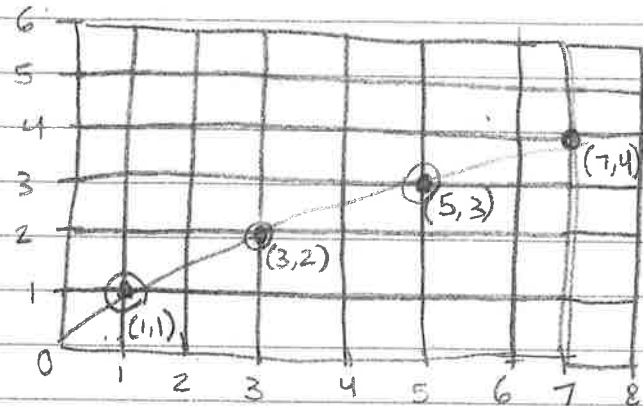


# CDC writing

## QUESTION:

Describe and correct the error in graphing the line from the input-output table.

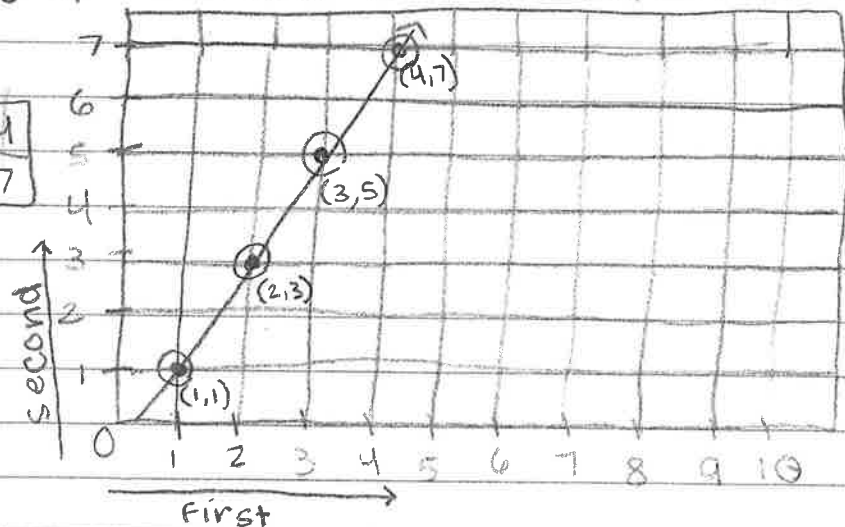
input, x	1	2	3	4
output, y	1	3	5	7



## ANSWER:

Claim: The graphing in this is incorrect. I say  
Data: this because he switched up x and y.  
Instead his graph should have looked like this:

input, x	1	2	3	4
output, y	1	3	5	7



### Right way

(1,1)

(2,3)

(3,5)




(4,7)


Commentary: This shows how he should've graphed it, using x before y. You can correct this by making sure to find the x first or imagine you need to walk to the mountain before you climb it. For example you should always put the x before y like this, (x,y), after you have done this replace x with the input number and y with the output

number. Input = independent Output = dependent.

An example of what it should look like is (2,3).

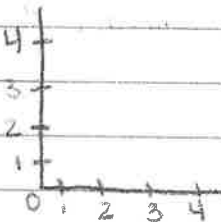
Once that is done start making your graph, you do this by first making a shape/figure like this:

quadrant 1:  $(+, +)$   quadrant 2:  $(-, +)$   quadrant 3:  $(-, -)$  

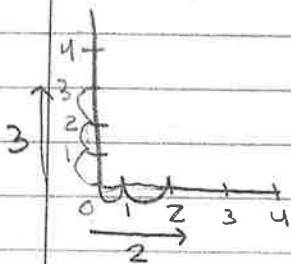
quadrant 4:  $(+, -)$  

You will number these off as 1, 2, 3 | 2, 4, 6 | 4, 8, 12  
or any pattern of number on both the x axis  
(right to left) and the y axis (up and down).

Example:



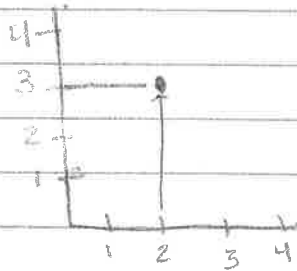
After this step you need to graph your  $(x, y)$  numbers. You do this by first starting off with the x number \input number. Like I said earlier you imagine that you need to walk (go side to side, x) to the mountain before you climb (go up and down, y). So if your numbers were (2, 2) you would need to move two spaces sideways. Example shown below.



Now you need to do the y number \output number, this time instead of walking you need to climb. This step always goes after x. If your numbers are (2, 3) you

would need to move 3 spaces upwards. Example shown above on other page. After you have done both x and y you need to plot  $(x,y)$ . You do this by taking the x number in this case it would be 2 and follow it upward till you hit the y number, in this case it would be 3. You then put a dot there

Example:



Once you have done all of the steps you connect the dots you plotted. After that you have completed your graph