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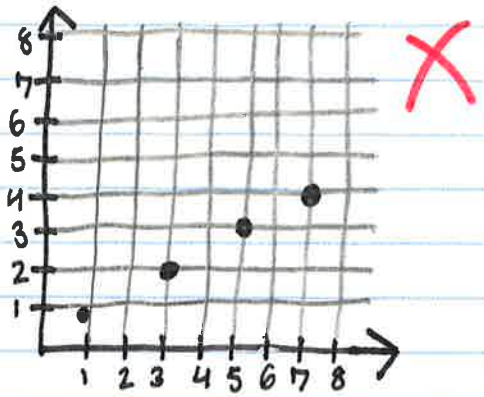
Math CDC - Mrs. Joshi 1/28/2020

Problem: 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



Claim: When graphing, input-output tables are helpful, but you must know how to graph them correctly.

Data: First, let's learn how to graph correctly with input-output tables.

Input	1	2	3	4
Output	1	3	5	7

← The input is always x
← The output is always y

X		Y
1	→	1
2	→	3
3	→	5
4	→	7

To find the ordered pairs, match the x with the y it was originally with.

Now, we start graphing.

This is how you graph:

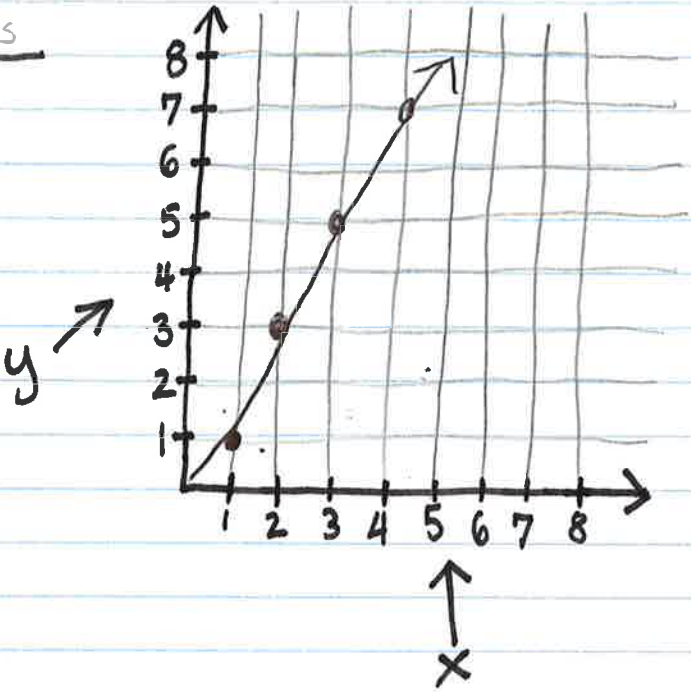
Ordered Pairs

(1,1)

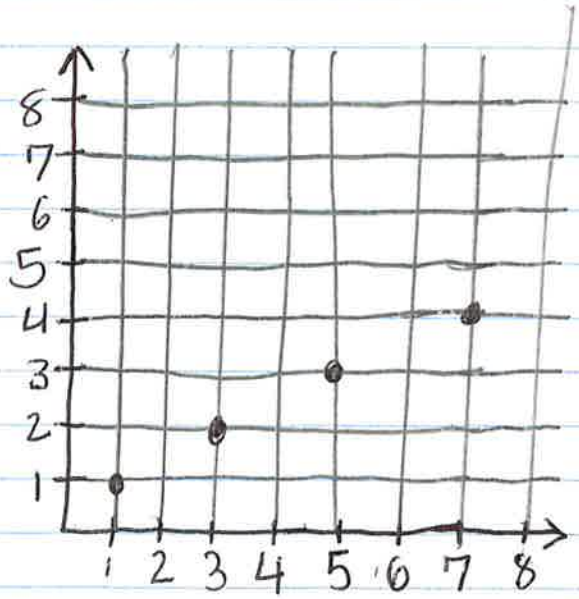
(2,3)

(3,5)

(4,7)



Wrong Way:



Commentary: As shown here in the data, we have used input-output tables to graph. Like the data has shown, the ordered pairs came from the table, with

the input being x and the output being y. When graphing on a coordinate plane, you always start with the x axis. For example, with the ordered pair (2,3), you must first start on 2 on the x axis, also known as the horizontal line. Then, you go up depending on your y coordinate. On the 2, you go up by 3. You are now on (2,3). The mistake that happened was that the person got the x and y coordinate mixed up. So, instead of graphing (1,1), (2,3), (3,5), and (4,7), he graphed (1,1), (3,2), (5,3), and (7,4). Now, you know how to graph with input-output tables and you know what the mistake is.