×	5		9	
6	30			24
3	15			12
	10	14	18	8
8		56	72	32

×			4	5
2	12	16		10
9	54	72		
	18	24		
7	42	56	28	35

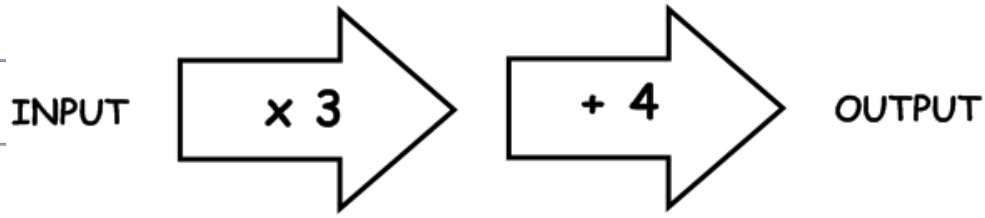
×	5	7	9	4
6	30	42	54	24
3	15	21	27	12
2	10	14	18	8
8	40	56	72	32

×	6	8	4	5
2	12	16	8	10
9	54	72	36	45
3	18	24	12	15
7	42	56	28	35

LO: to find a rule(2 steps)

we do

- What is a function machine?
- What is the input?
- What is the process?
- What is the output?
- Can you show me an example of a 2-step function machine?

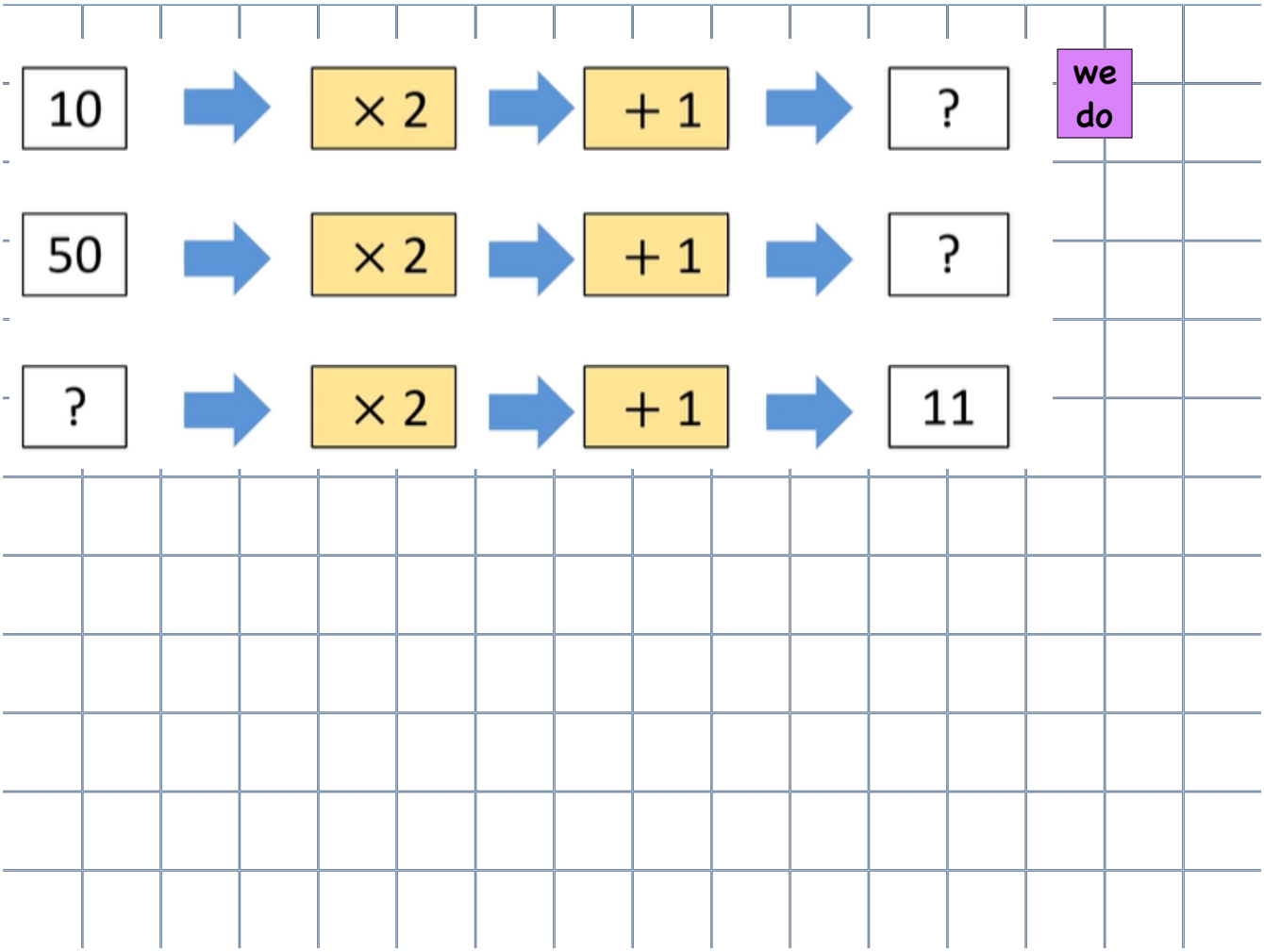


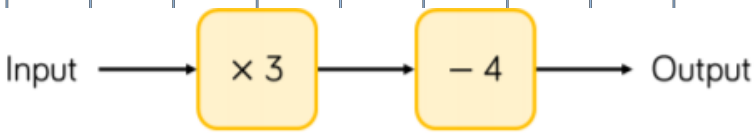
I do

A function machine is a way of writing rules.

Input Output




10
× 2
+ 1
?
we do
50
× 2
+ 1
?
?
× 2
+ 1
11



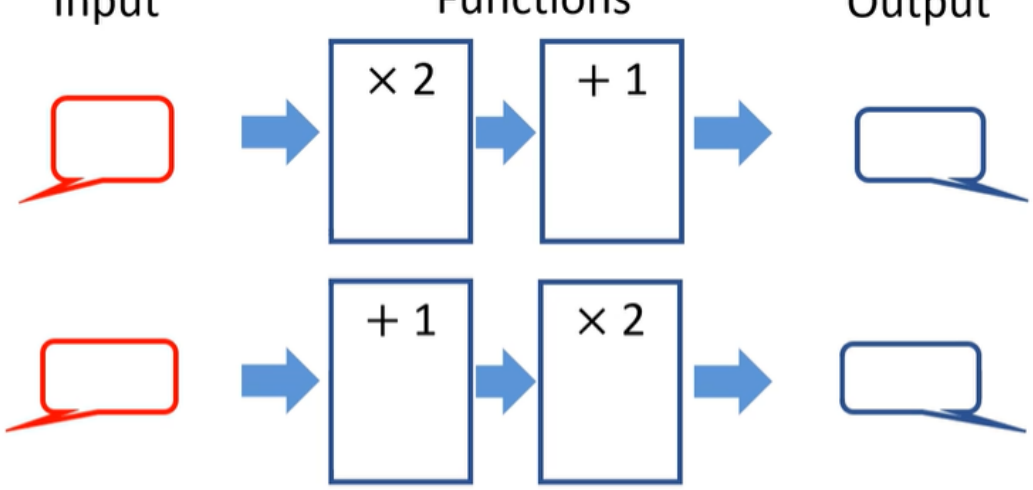
Input	1	2	3	4	5
Output					

What patterns do you notice in the outputs?

What is the input if 20 is the output?

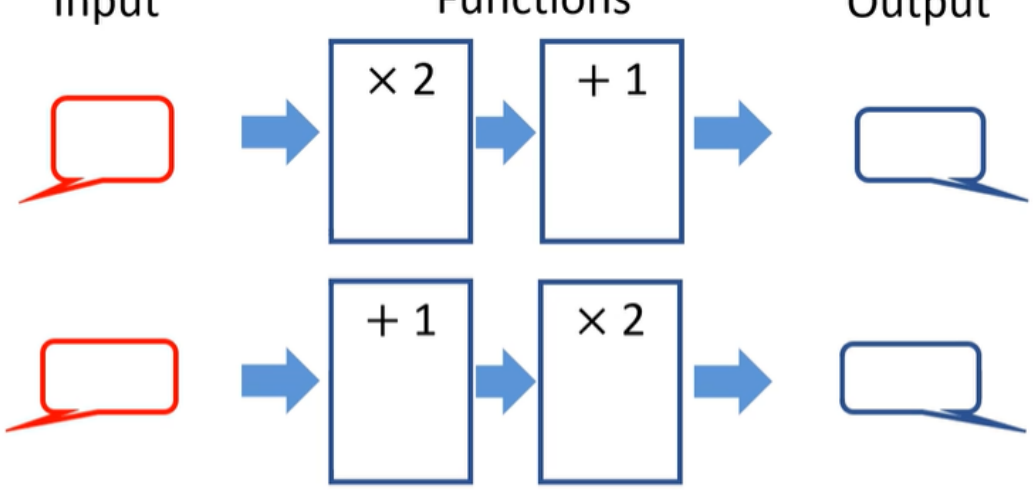
How did you work it out?

I do



If I change the order of the functions, is the output the same?

I do



If I change the order of the functions, is the output the same?

we do

a) input → + 3 → + 4 → output

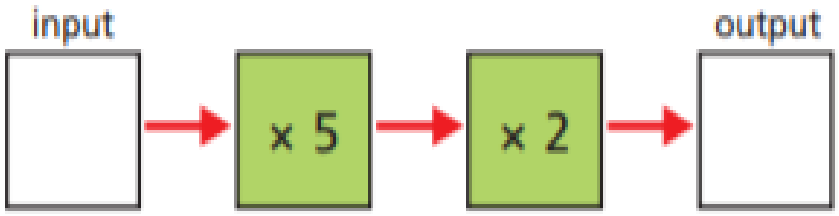
input → + 4 → + 3 → output

b) input → × 3 → − 1 → output

input → − 1 → × 3 → output

c) input → × 10 → × 2 → output

input → × 2 → × 10 → output



What do you notice?

you do

Attachments

Factor Bugs.pptx