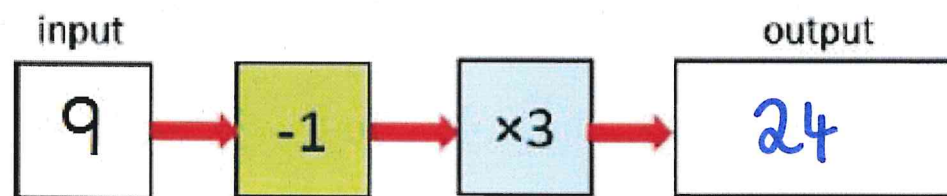
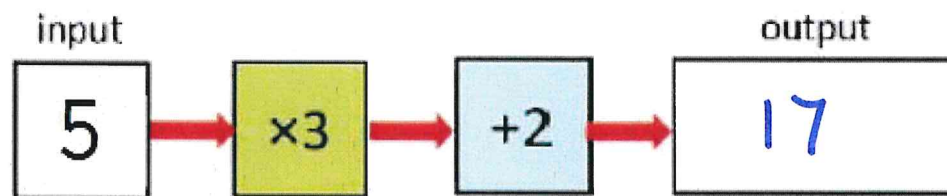
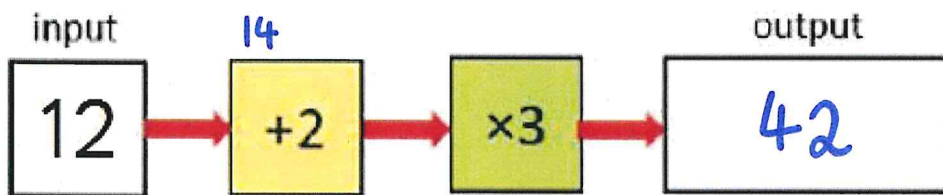
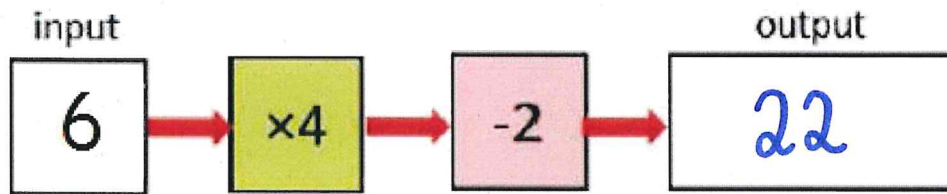
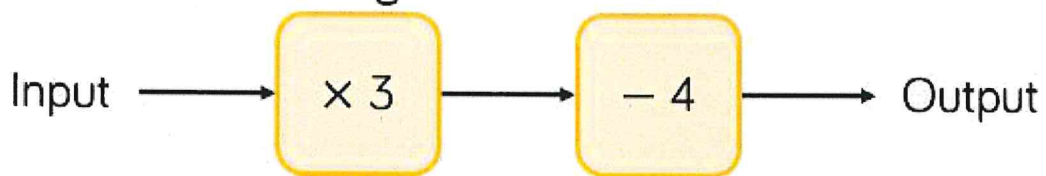


Calculate the inputs for the function machines.



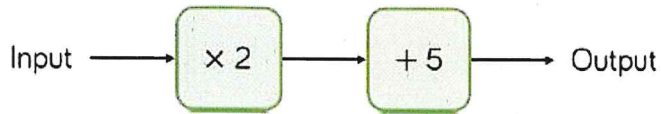
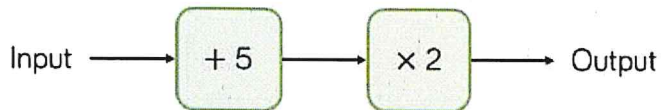
Complete the table for the given function machine.



Input	1	2	3	4	5
Output	$\nabla -1$	2	5	8	11

- What patterns do you notice in the outputs?
- What is the input if 20 is the output? How did you work it out?
8

Teddy has two function machines.



He says,



The function machines will give the same answer.

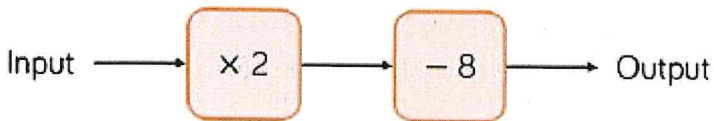
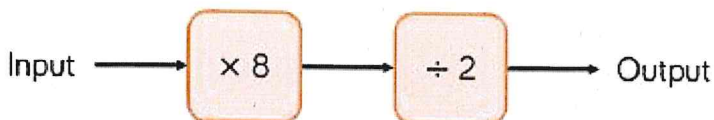
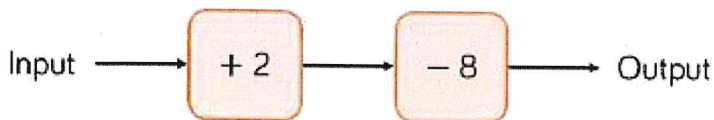
Is Teddy correct? **No**

Is there an input that will give the same output for both machines?

\rightarrow give examples

Working Deeper

Mo has the following function machines.

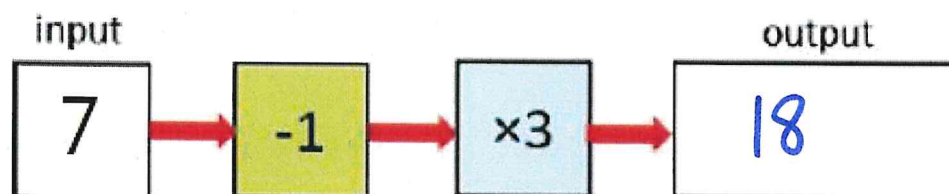
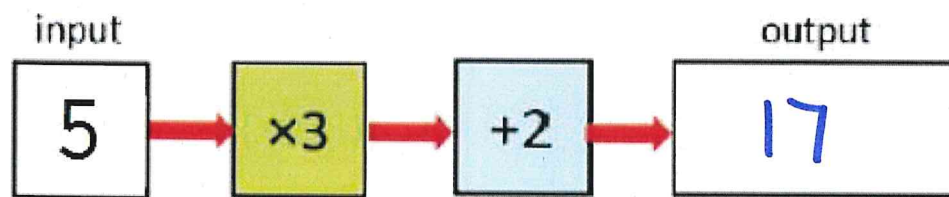
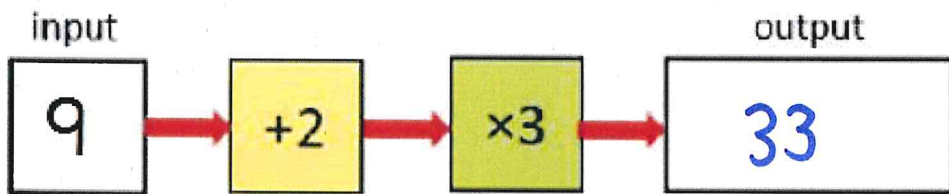
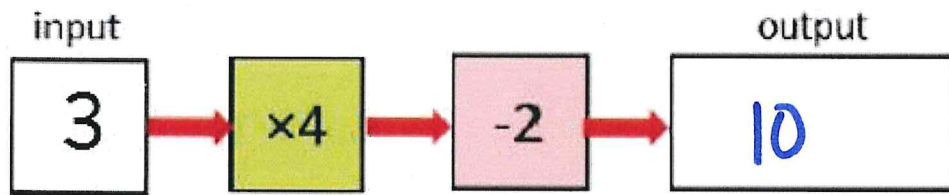
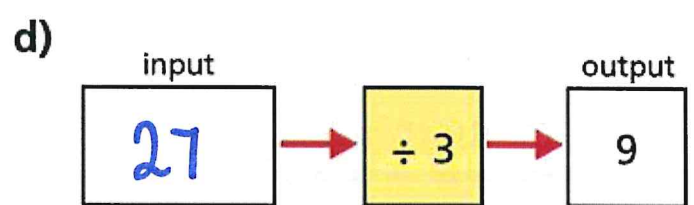
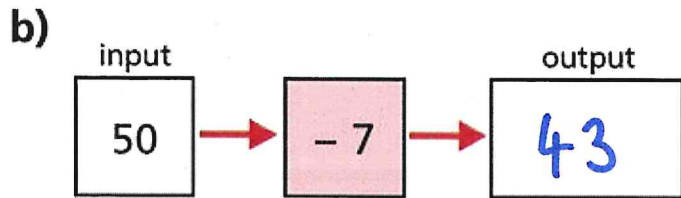
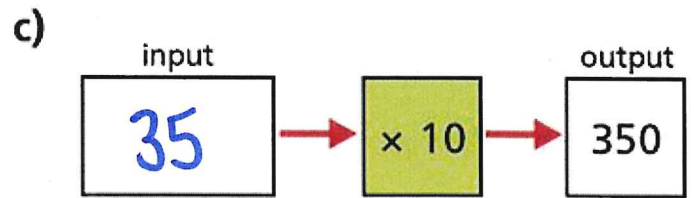
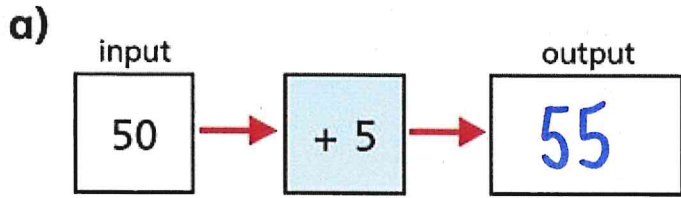


could be -6

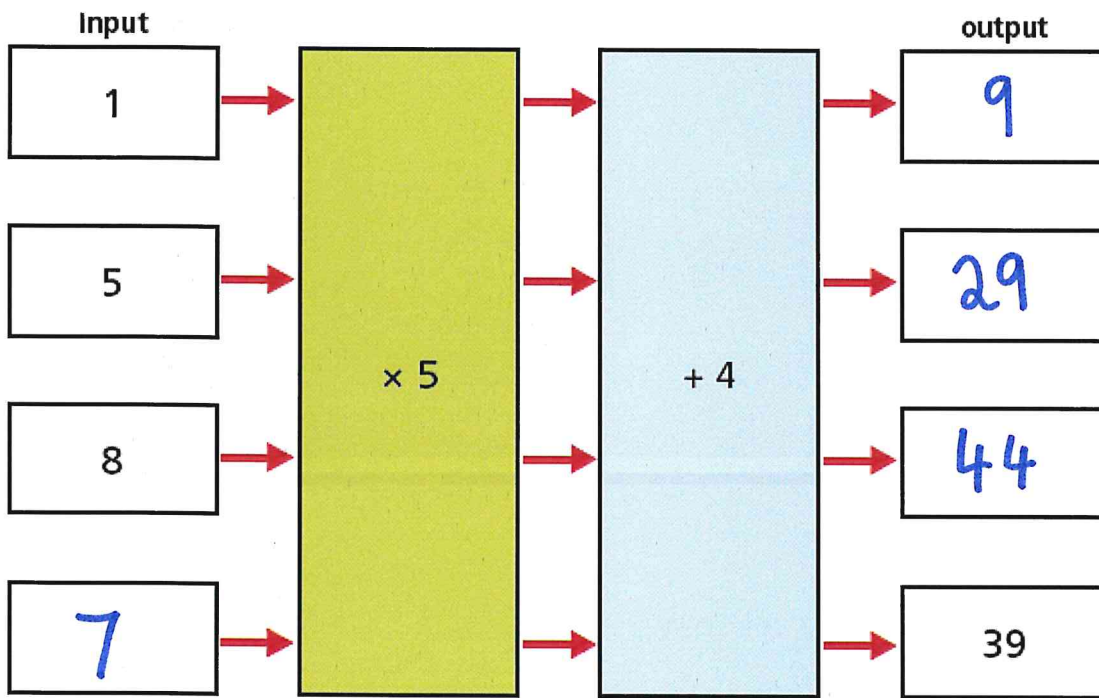
$\times 2$

can not be a single function

Explain which of these can be written as single function machines.



Work out the missing outputs and inputs.



$$39 - 4 = 35 \div 5 = 7$$