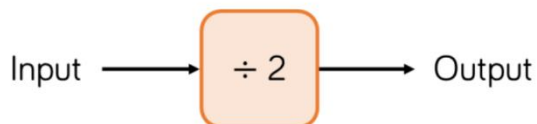


Dora puts a number into the function machine.



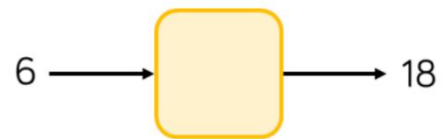
Dora's number is:

- A factor of 32
- A multiple of 8
- A square number

What is Dora's input?

What is her output?

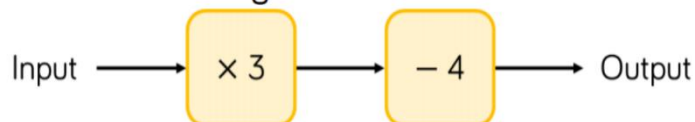
Eva has a one-step function machine. She puts in the number 6 and the number 18 comes out.



What could the function be?

How many different answers can you find?

Complete the table for the given function machine.



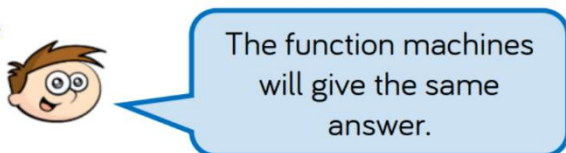
Input	1	2	3	4	5
Output					

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

Teddy has two function machines.



He says,



Is Teddy correct?

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

Mo has the following function machines.



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