12.02.21 Fluent in five

$$2) (40 + 8) \div 4 =$$

$$3) 14,000 + 59,000 =$$

4)
$$5.85 \times 9 =$$

6)
$$\frac{6}{10} \div 2 =$$

$$2) 2 \times 5 - 3 =$$

$$3) 1.82 \times 4 =$$

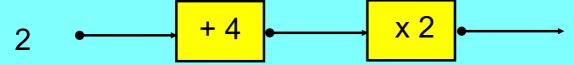
$$5)\frac{1}{2}$$
 of 100 =

WALT find a rule

https://vimeo.com/499980302

Yesterday we were looking at one step function machines. Today, we are looking at two steps.

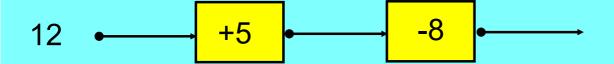
Input Output



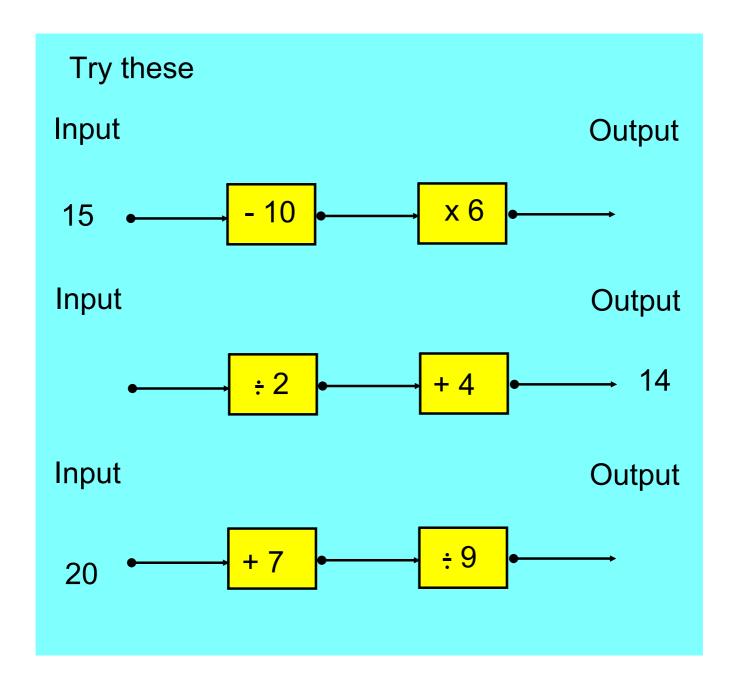
We have to follow a function machines method. So, the first function will always need to happen first.

What about this one?

Input Output



Is there a way of combining the two steps into one step?

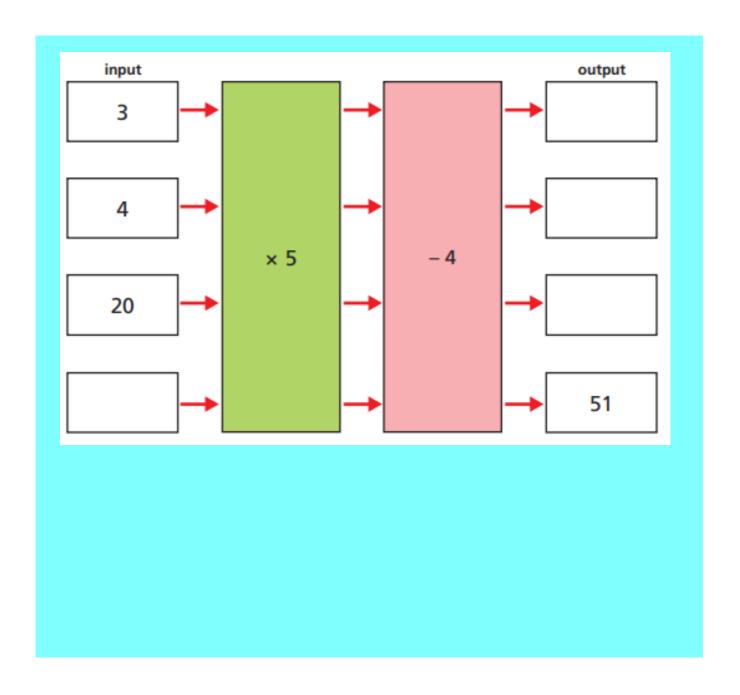


What could the functions be? Input Output

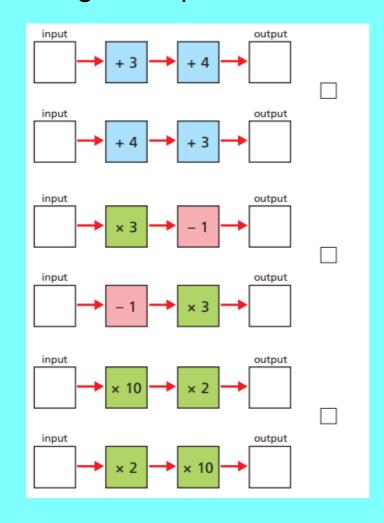
Is there more than one possibility?
How many can you find?

20

30



Tick the ones that would create the same output for a given input.



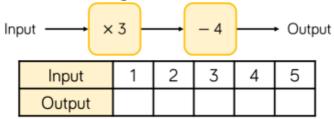
Varied Fluency

Here is a function machine.



- What is the output if the input is 5?
- What is the input if the output is 19?
- What is the output if the input is 3.5?

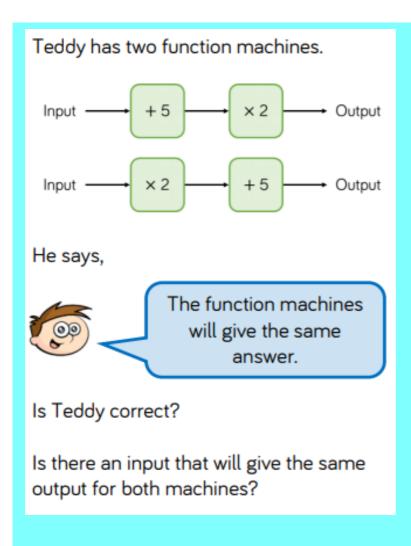
Complete the table for the given function machine.



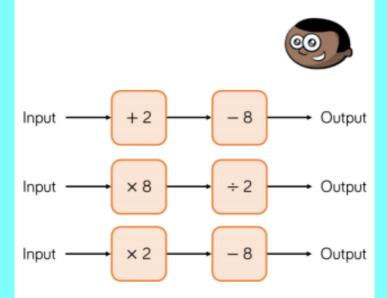
- · What patterns do you notice in the outputs?
- What is the input if 20 is the output? How did you work it out?
- How can you write this two-step machine as a one-step machine?



Check your answer by inputting values.



Mo has the following function machines.



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