

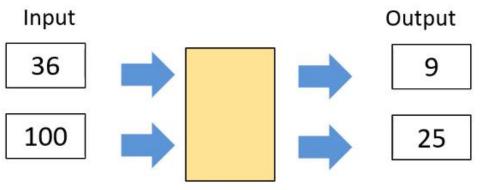
Tuesday 23rd February 2021

LO: Find a rule – two step

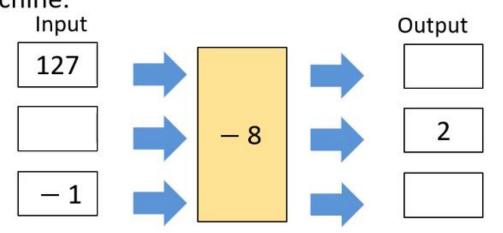
Get ready questions

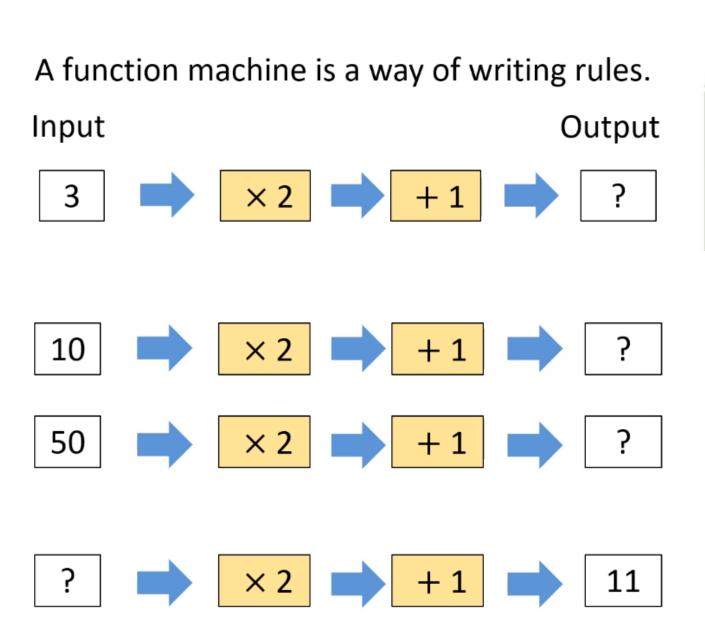


1) Write the missing function in the function machine.

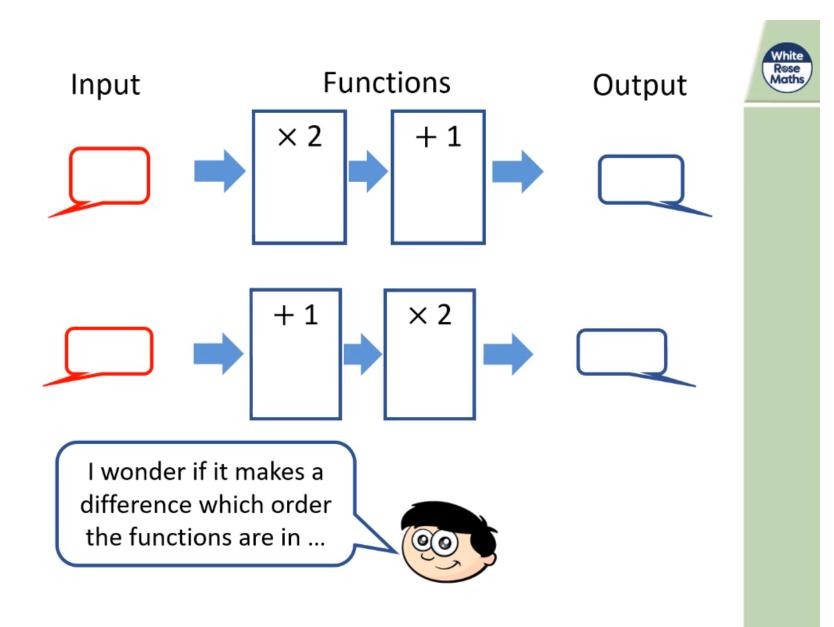


2) Calculate the missing inputs and outputs for the function machine.

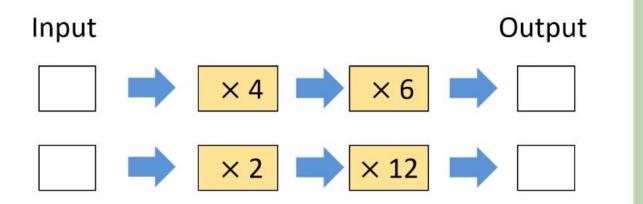








True or False These function machines will give the same output if the input is the same.

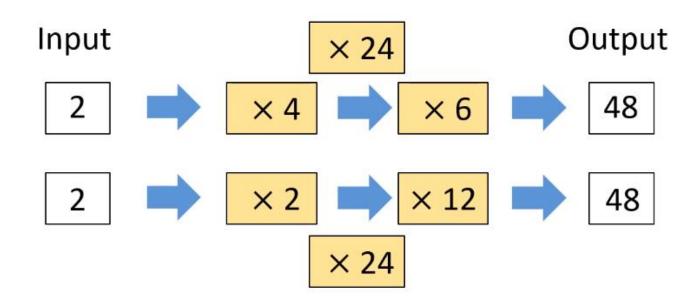






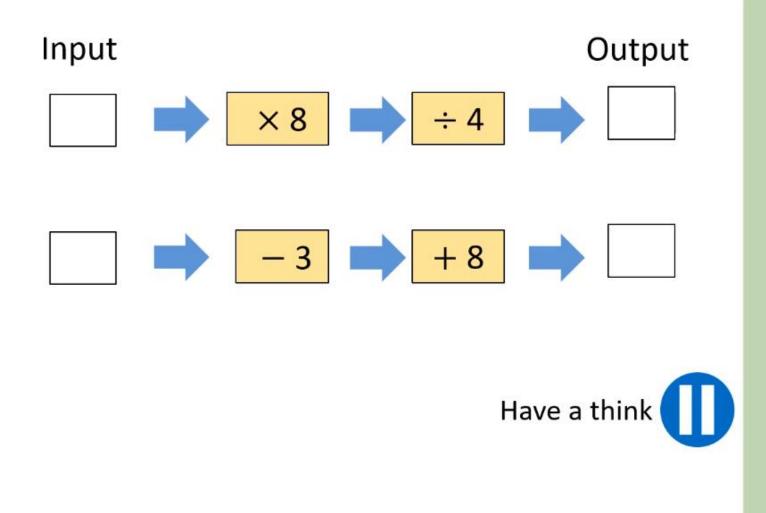
White Rose Maths

These function machines will give the same output if the input is the same.



For each function machine, write a single step that would give the same output.

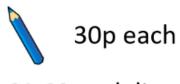
White Rose Maths





Eva is ordering some crayons online. She needs to buy 22 crayons altogether.

How much will it cost for 22 crayons including delivery?

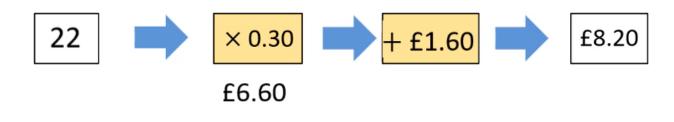


£1.60 to deliver

Can you create a function machine to help you?

Input

Output

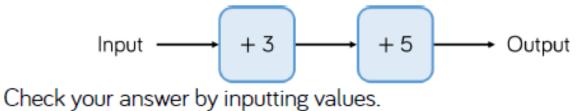


 $22 \times 0.3 = 6.6$

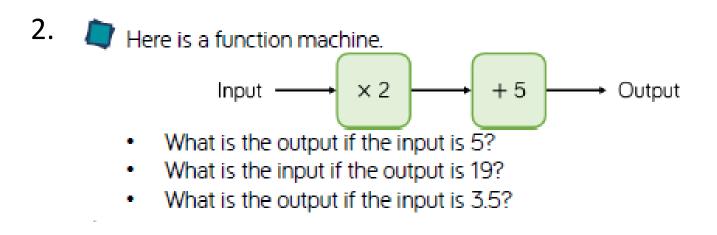




1. The How can you write this two-step machine as a one-step machine?



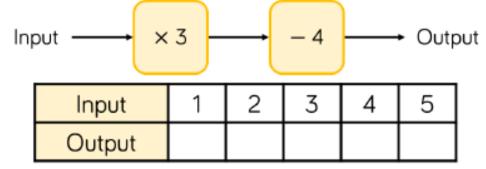
Is your answer the same with a two step function and the one step function? Prove it with an example



3. How can you write +5 followed by – 2 as a one step function?

В

1. Complete the table for the given function machine.

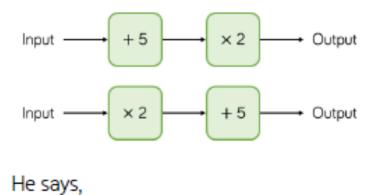


- What patterns do you notice in the outputs?
- What is the input if 20 is the output? How did you work it out?
- If you add 3 to a number and then add 5 to the result, how much have you added on altogether?

3. If I change the order of the functions, is the output the same? Explain with an example.

С

Teddy has two function machines.

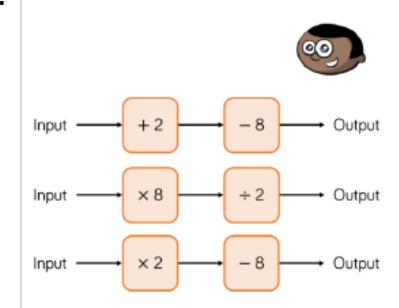


The function machines will give the same answer.

Is Teddy correct?

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

2. Mo has the following function machines.



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