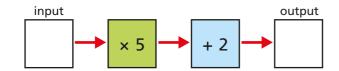


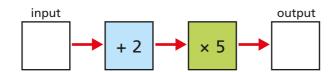
## Find a rule – two step

1 Use the function machine to complete the table.



Input	1	2	3	5	10	50
Output	7	12	17	27	<b>52</b>	252

Here is the same function machine with the steps in the reverse order.





Teddy

The outputs will be different.



Jack

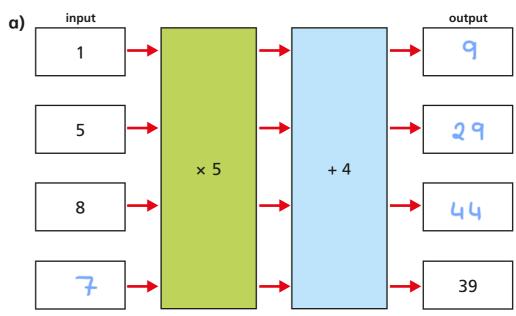
Explain to a partner who you think is correct.

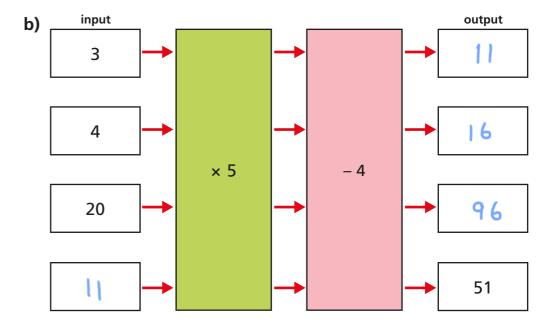
Use the function machine to complete the table.

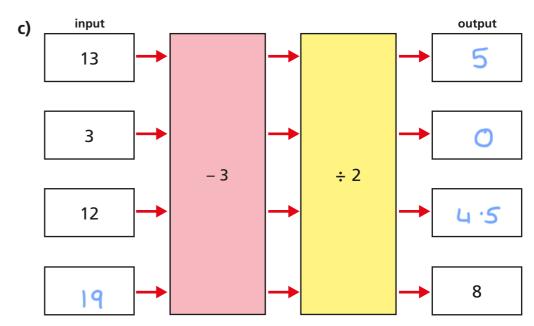
Input	1	2	3	5	10	50
Output	15	20	25	35	60	260

Who is correct? \_\_\_\_\_\_

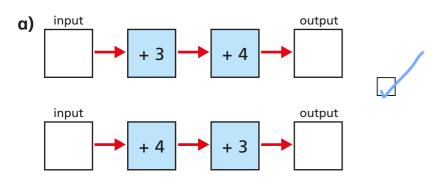


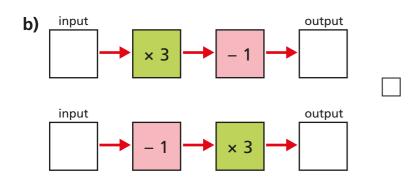


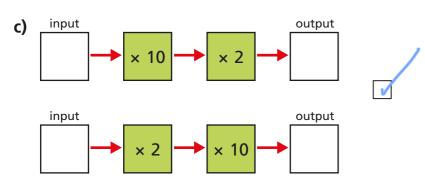




Tick the pairs of function machines that will give the same outputs for a given input.







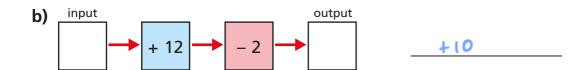
Explain your reasoning to a partner.

Here are some 2-step function machines.

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

Check your answers by inputting values.



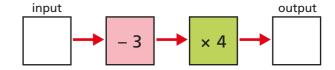




Can all 2-step function machines be written as a 1-step function machine?

Talk about it with a partner.





a) Complete the table.

Input	10	3	13	73
Output	28	0	40	280

**b)** Rosie puts a number into the machine and she gets out the same number.

Work out Rosie's number.



- 7 Mr Hall and Mrs Rose order some photos online.
  - a) Mr Hall orders 16 photos.
    How much does he pay?



E4-45

b) Mrs Rose pays £6.05
How many photos did she order?

24

