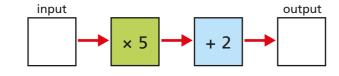


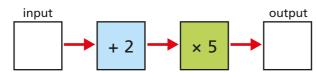
## Find a rule – two step

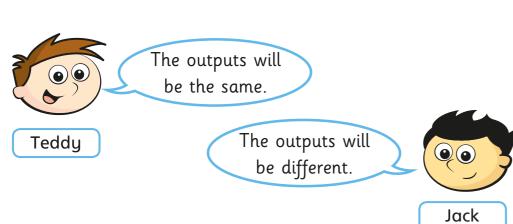
1 Use the function machine to complete the table.



Input	1	2	3	5	10	50
Output						

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





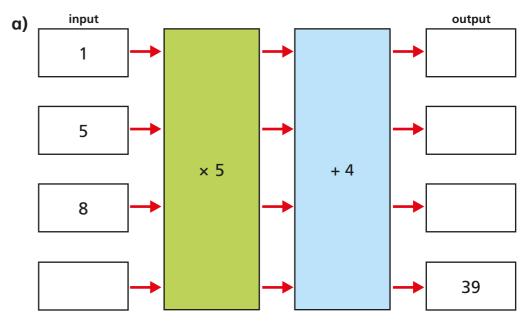
Explain to a partner who you think is correct.

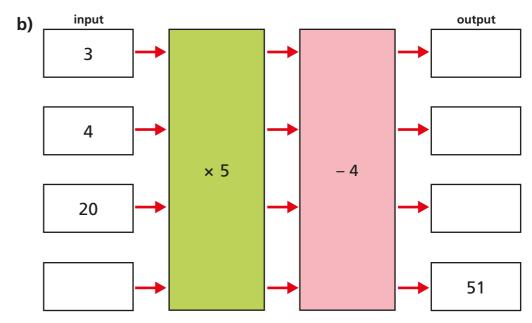
Use the function machine to complete the table.

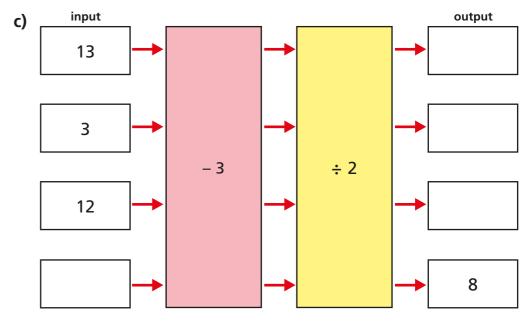
Input	1	2	3	5	10	50
Output						

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

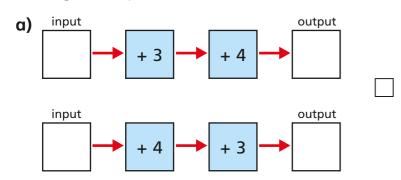
3 Work out the missing outputs and inputs.

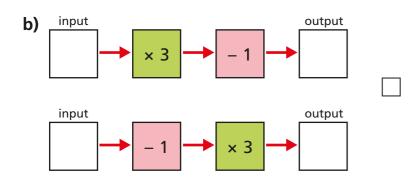


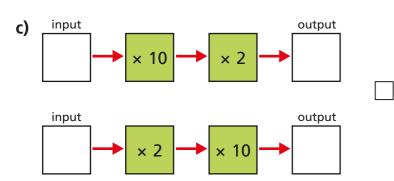




Tick the pairs of function machines that will give the same outputs for a given input.





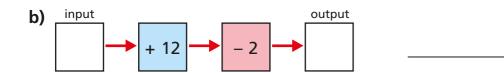


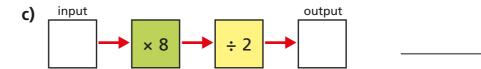
Explain your reasoning to a partner.

5 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.

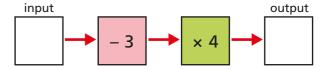




Can all 2-step function machines be written as a 1-step function machine?

Talk about it with a partner.



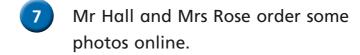


a) Complete the table.

Input	10	3		
Output			40	280

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

Work out Rosie's number.



a) Mr Hall orders 16 photos.
How much does he pay?



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



