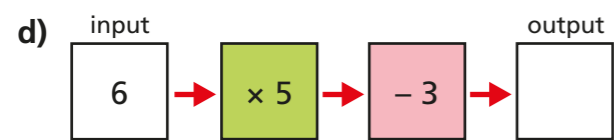
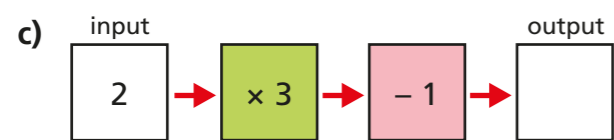
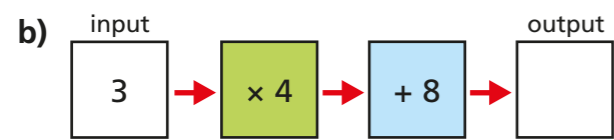
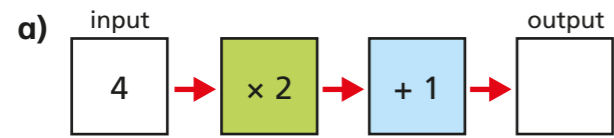
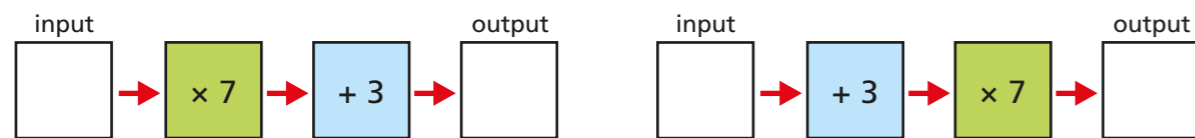


2-step function machines (number)

1 Complete the function machines.



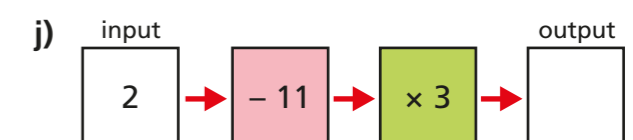
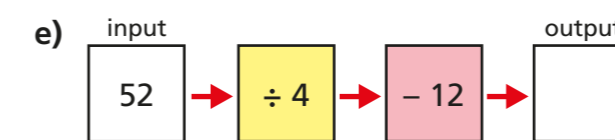
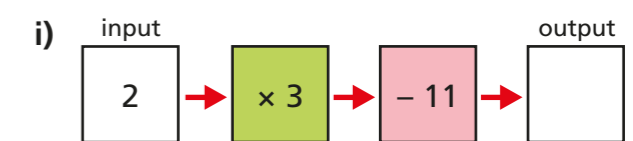
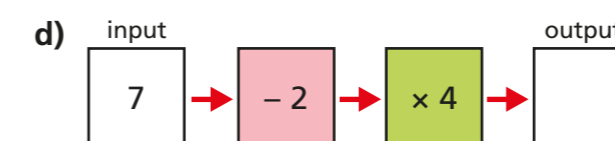
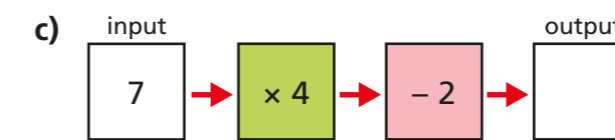
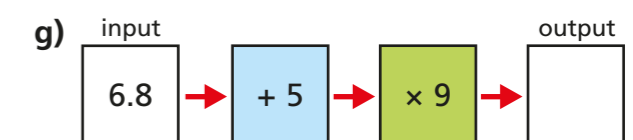
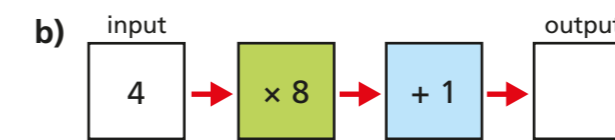
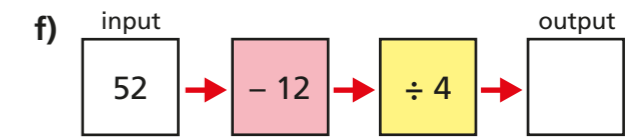
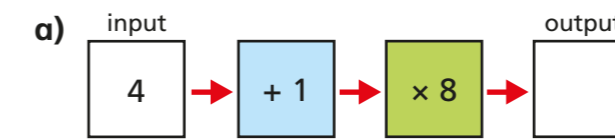
2 Teddy says these two function machines are the same.



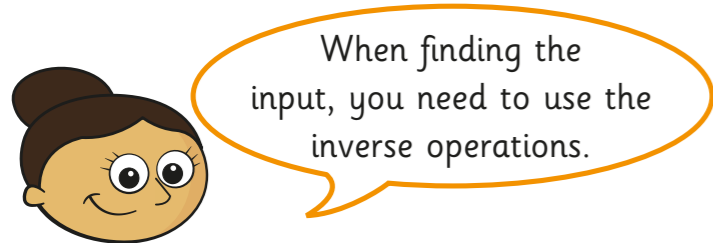
Explain why Teddy is incorrect.

Complete the function machines to support your answer.

3 Complete these 2-step function machines.



4 Dora is finding the input for this 2-step function machine.



Here is her working out.

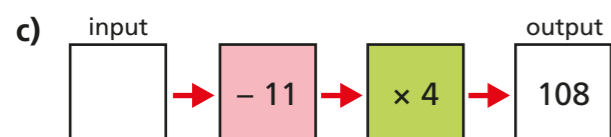
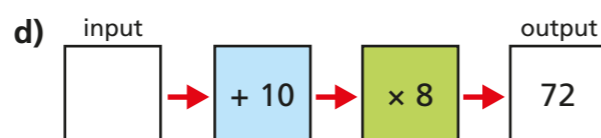
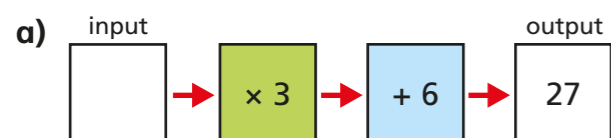
Check Dora's answer by inputting 1 back in to the 2-step function machine.

Is Dora correct? _____

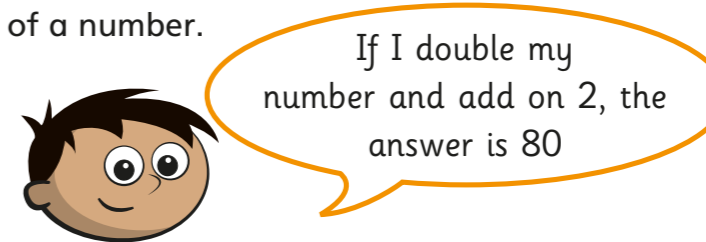
Explain your reasoning.

$36 \div 4 = 9$
 $9 - 8 = 1$
 So the input is 1

5 Complete these 2-step function machines.



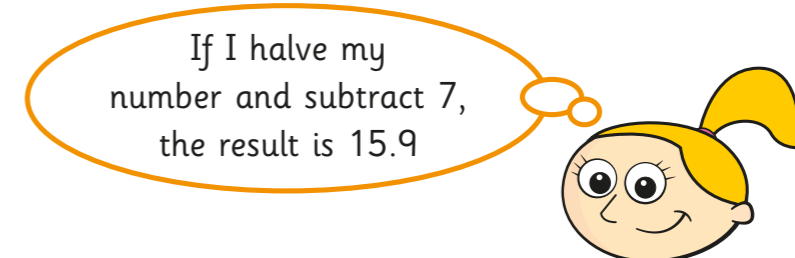
6 Amir is thinking of a number.



a) Draw this as a 2-step function machine.

b) Use inverse operations to work out Amir's number.

Eva is thinking of a number.



c) Draw this as a 2-step function machine

d) Use inverse operations to work out the number Eva is thinking of.

e) Make up your own "think of a number" problem for a partner.