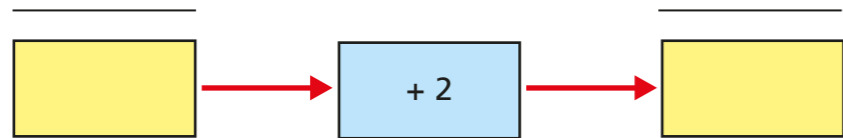
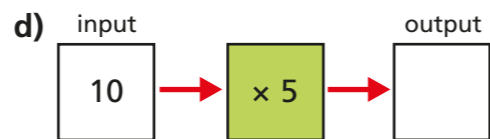
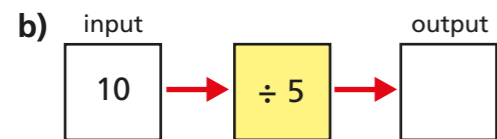
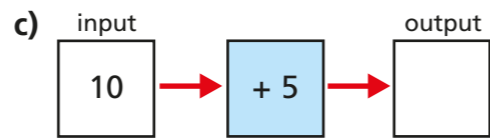
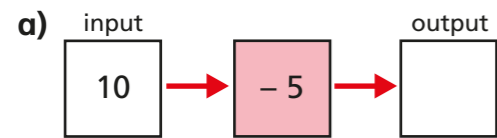


# Single function machines (number)

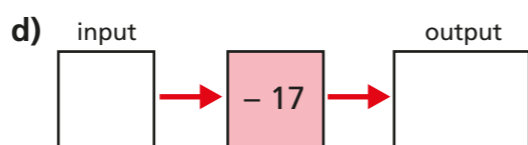
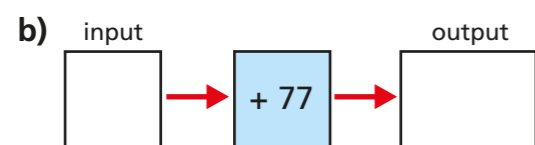
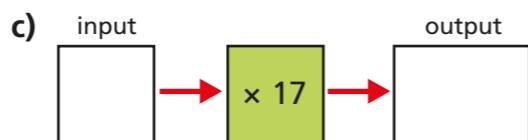
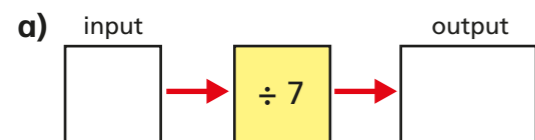
1 Label the function machine using the words input and output.



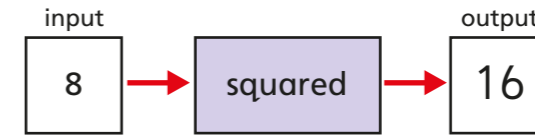
2 Complete the function machines.



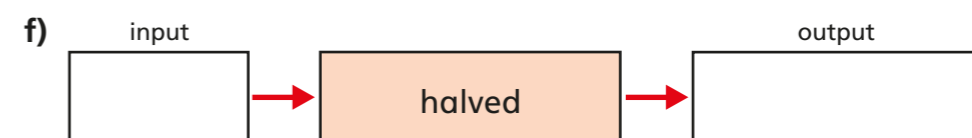
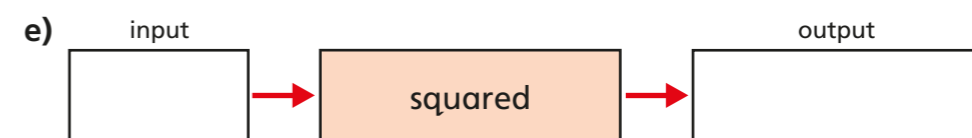
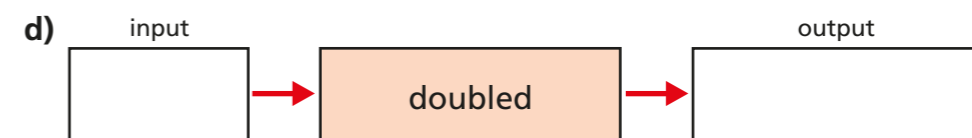
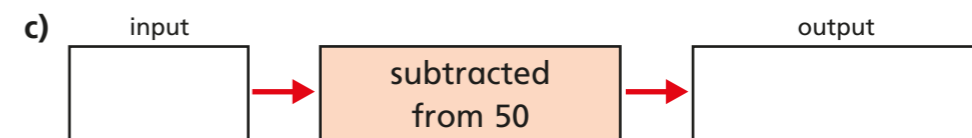
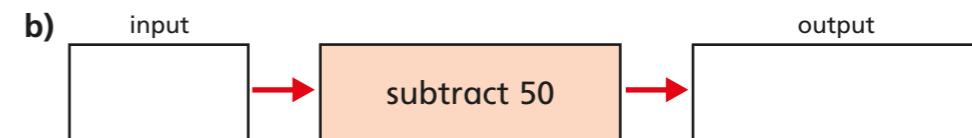
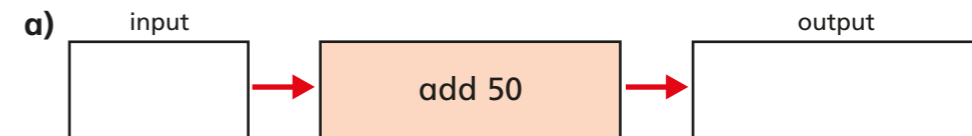
3 The input for each function machine is 56  
Complete the function machines.



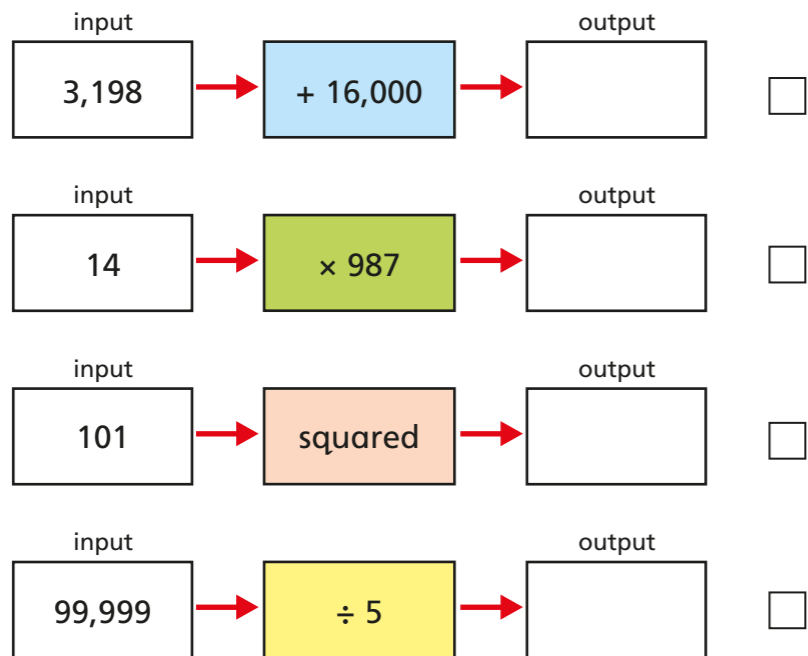
4 Tommy has calculated the output for this function machine.  
Tommy's answer is incorrect. What mistake has he made?



5 Find the output if 22.5 is the input. Complete the function machines.

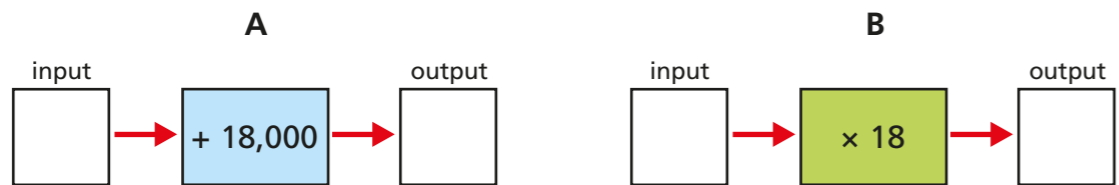


- 6 Estimate which of the function machines will give the biggest output.  
Tick your answer.



Work out the output of each function machine to check your estimate.

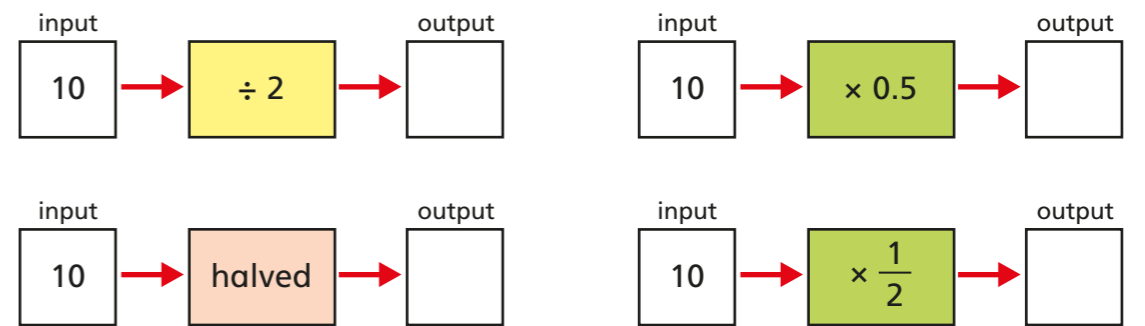
- 7 Here are 2 function machines.



- a) Find an input so that function machine A has the biggest output.
- b) Find an input so that function machine B has the biggest output.
- c) Find an input for each function machine so that both functions have the same output.

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- 8 Dora thinks each of these function machines will give the same output for any input.  
Is she correct? Explain your reasoning.




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- 9 a) Draw as many function machines as possible that give an output of 64 when the input is 8

- b) How many different function machines can you think of that give the same output for a given input?