

11.02.21 Fluent in five

1) $582.12 + 14.66 =$

2) $2.02 \times 9 =$

3) $\frac{3}{5} \div 2 =$

4) $477,898 + \underline{\hspace{2cm}} = 955,796$

5) $32 - 18 =$

6) $690 - 430 =$

1) $2.14 + 4.66 =$

2) $2.02 \times 4 =$

3) $\frac{1}{4} + \frac{3}{8} =$

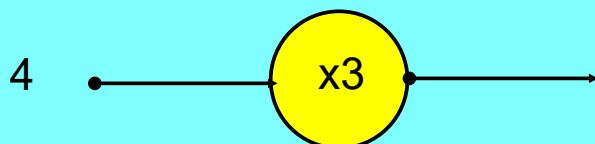
4) $4321 + \underline{\hspace{2cm}} = 8642$

5) $690 - 280 =$

WALT find a rule

<https://vimeo.com/499979721>

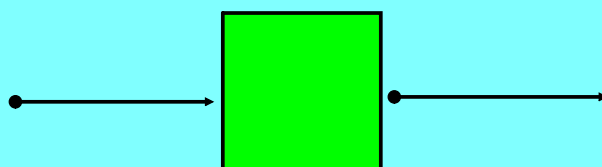
Today we are going to find a rule. To do this we are going to look at function machines that involve one step. This means that only one function is done to the number.



What about this one?

What do you think input and output mean?
What is the output if?
What is the input if?

Let's label this function machine



Have ago at these!

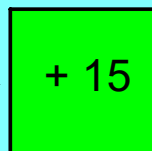
Input

Output

1) 8

2) 15

3) 19



What happens is we only have the outputs?

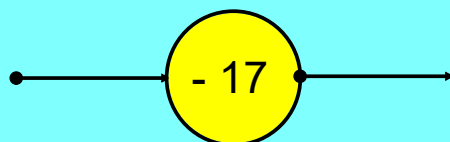
Input

Output

1) 8

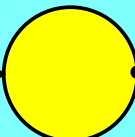
2) 11

3) 19



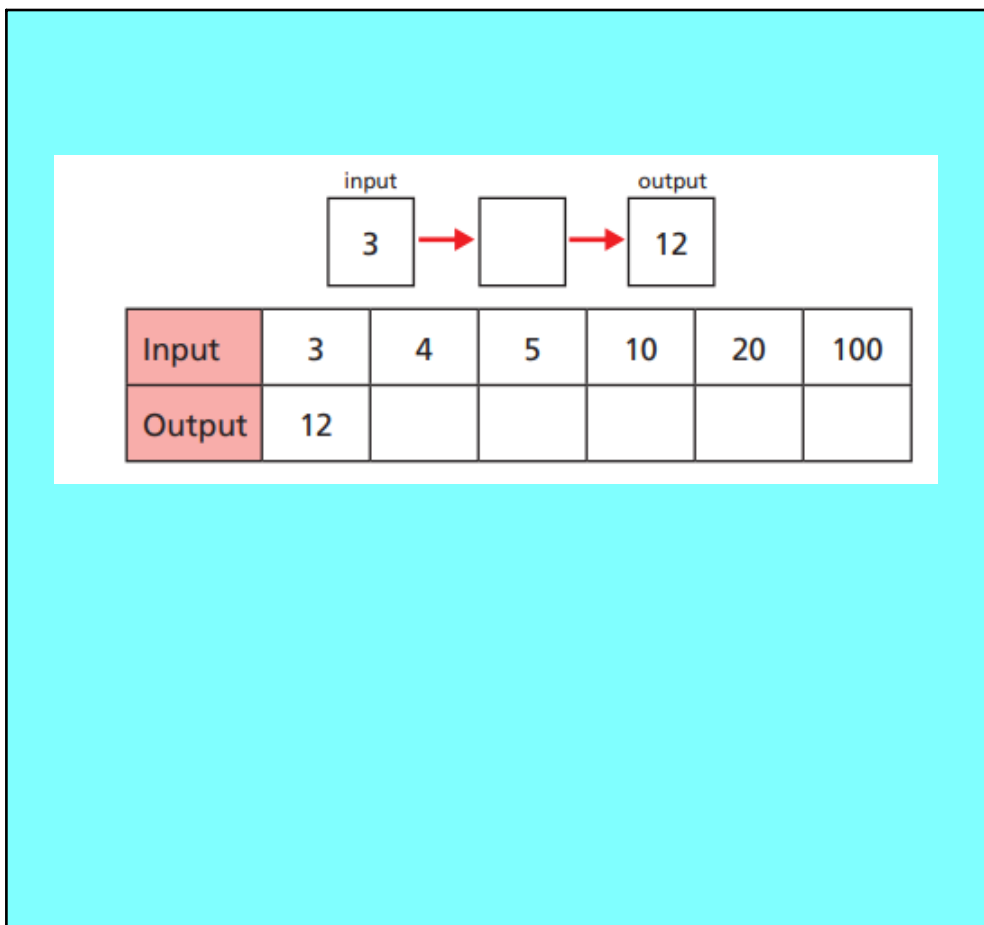
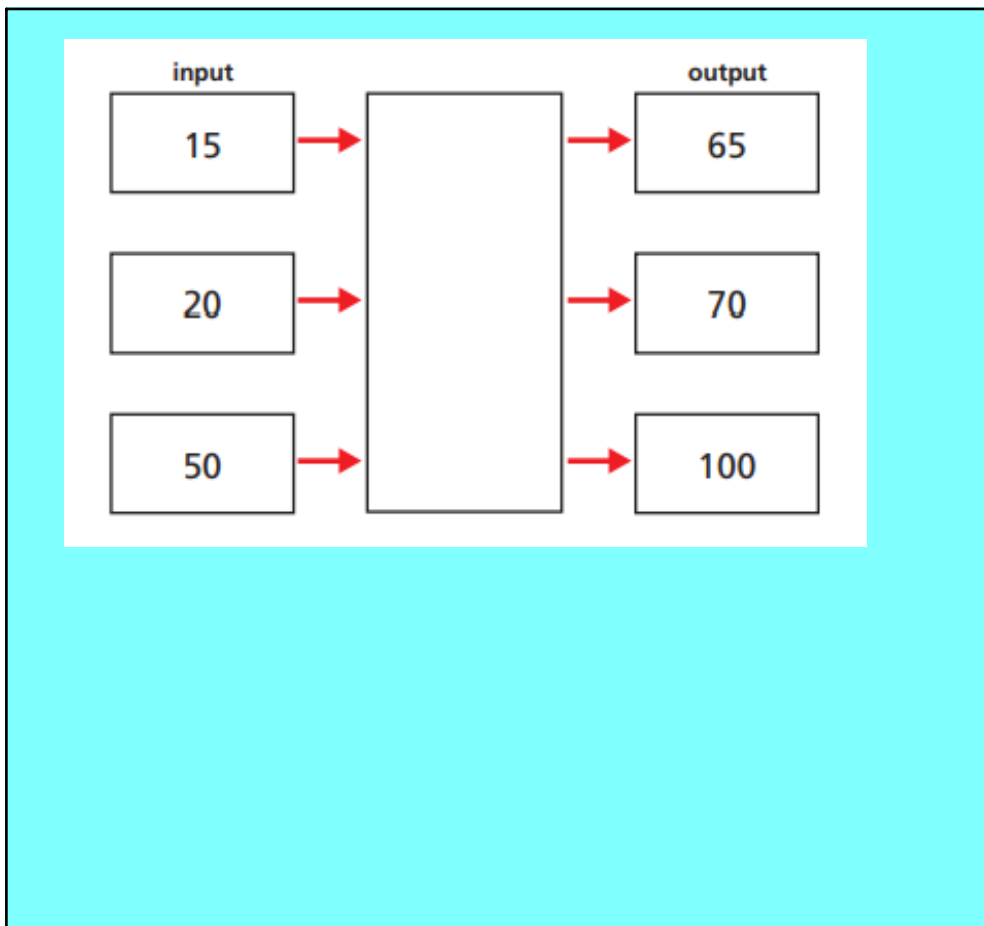
How can we work out the function?

Input Output

15 →  → 45

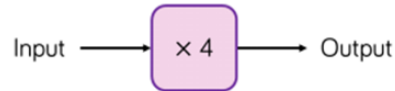
Is there more than one possibility?

input		output
8	+10	
		14
5.5		
		8



Varied Fluency

Here is a function machine.



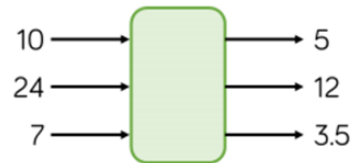
- What is the output if the input is 2?
- What is the output if the input is 7.2?
- What is the input if the output was 20?
- What is the input if the output was 22?

Complete the table for the function machine.



Input	5	5.8	10	-3	-8			
Output						9	169	0

Find the missing function.

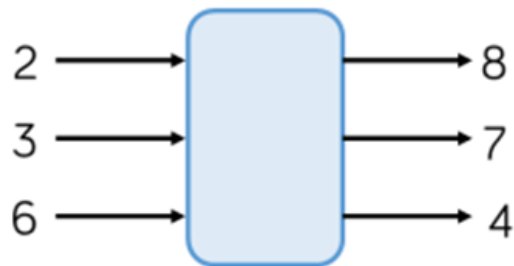


Eva has a one-step function machine.
She puts in the number 6 and the
number 18 comes out.



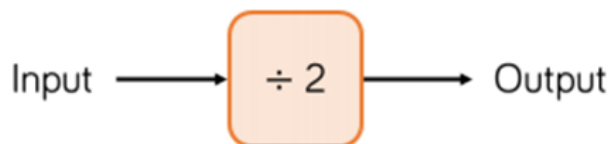
What could the function be?
How many different answers can you
find?

Amir puts some numbers into a function machine.



What is the output from the function when the input is 16?

Dora puts a number into the function machine.



Dora's number is:

- A factor of 32
- A multiple of 8
- A square number

What is Dora's input?

What is her output?

Can you create your own clues for the numbers you put into a function machine for a partner to solve?