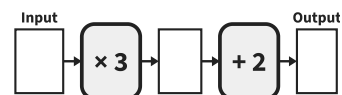


Function Machines

1

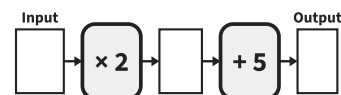
Complete the table.



Input	after $\times 3$	Output
4	12	14
7		
10		

2

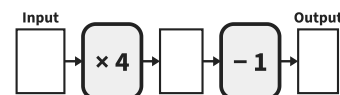
Complete the table.



Input	after $\times 2$	Output
3	6	
6		
9		

3

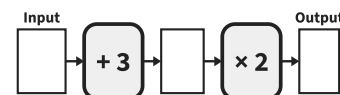
Complete the table.



Input	after $\times 4$	Output
2	8	
5		
8		

4

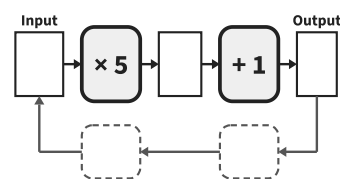
Complete the table.



Input	after $+ 3$	Output
1	4	
4		
10		

5 *Notice the change!*

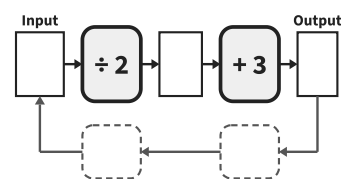
Work backwards to find each input.



Input	after $\times 5$	Output
		11
		21
		36

6

Work backwards to find each input.



Input	after $\div 2$	Output
		7
		9
		13

7

Notice the change!

Complete the table.



Input	Output
5	
12	
n	

8

Complete the table.

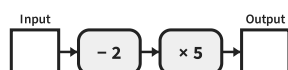


Input	Output
3	
10	
n	

Function Machines *further practice*

9

Find the output when the input is 6, and when the input is n .

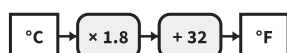


Input 6 _____

Input n _____

10

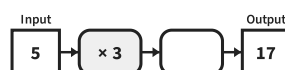
This machine changes a temperature in $^{\circ}\text{C}$ into $^{\circ}\text{F}$. Change 25°C into $^{\circ}\text{F}$.



Answer _____

11

Find the missing step.



Missing step _____

12

To hire a bike costs £4 for each hour, plus £6 for a helmet. Ola pays £26 altogether. For how many hours did she hire the bike?



Answer _____

13

Sara thinks of a number. She adds 4, then multiplies by 3, then subtracts 5. Her answer is 31. What number did she think of?



Answer _____

14

This machine works out a taxi fare. It multiplies by a number and then adds a number. Find the two steps. How much is a 10 mile journey?

miles	1	2	3
cost (£)	5	8	11

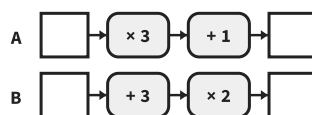


Steps _____

10 miles _____

15

Lin puts the same number into machine A and machine B. She gets the same output from both. What number did she put in?



Answer _____

16

Jo says that $+ 4$ then $\times 3$ gives the same output as $\times 3$ then $+ 4$. Is Jo right? Explain.

Answer _____