

Tuesday (hard) – LO: to find and calculate with a two-step rule.

Varied fluency

Reasoning and problem solving

9a. Write the outputs for the algebraic function.

$3a - 11$

2	→	
12	→	
3	→	

★ VF

10a. True or false?

3 → $4a - 20$ → -8

★ VF

11a. Use the function to match up the inputs and outputs.

$\div 4 - 20$

16	-10
40	-9
44	-16

★ VF

12a. What is the algebraic rule for this function machine?

-3	→	+9	→	?	→	30
3	→		→		→	60
-6	→		→		→	15

★ VF

7a. Toby put some numbers into a function machine.


Input	Function	Output
12		13.5
15	?	15
10		12.5

What is the output when the input is 52?

★ PS

8a. True or false? Explain your answer.

Input	Output
7	2.7
3	2.3

 I think that the function is $\times 2$ and then subtract 3.7 because 3×2 then $- 3.7$ is 2.3.

★ R

9a. Jaiden is using this function machine.

Function

Input → $+ 7 \div 10$ → Output

He puts a number into the function machine. He then puts the output back into the machine. He now has the output of 0.82.

What was Jaiden's original number?

★ PS