

9.2.21

**LO: Find a Rule: 2 Steps**

1a) Complete the table for the given function machine.



Input	0	1	2	3	4	5
Output						

1b) What patterns do you notice in the outputs?

1c) What is the input if 20 comes out? Show how you worked this out.

2a) Complete the table for the given function machine.



Input	0	1	2	3	4	5
Output						

2b) What patterns do you notice in the outputs?

2c) What is the input if 60 comes out? Show how you worked this out.

David has a two function machines.

3)



He says,



The function machines will give the same answer.

Is David correct?

Is there an input that will give the same output for both machines?

4) Lola has the following function machine.



Explain how this can be written as a single function machine.