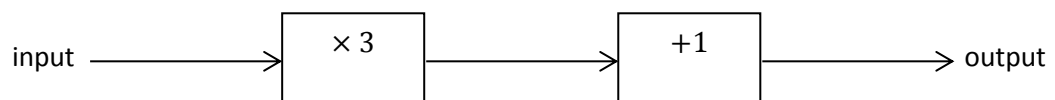


Sequences Starters and Function Machines

- 1) The first three terms in a sequence are given by $a \ b \ c \dots$
The rule to get from one term to the next is to double and then add 1
 - a) Write b in terms of a
 - b) Write c in terms of a , simplifying your answer

- 2) The first three terms in a sequence are given by $a \ b \ c \dots$
The rule to get from one term to the next is to subtract 4 and then multiply by 3
 - a) Write b in terms of a
 - b) Write c in terms of a , simplifying your answer

- 3) A function machine is given below



- a) What is the output when the input is 4?
- b) For what value is the input equal to the output?
- c) For what input is the output double the input?