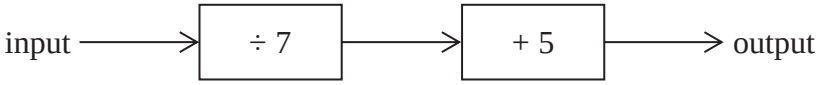
1 Here is a number machine.



(a) Work out the output when the input is 28

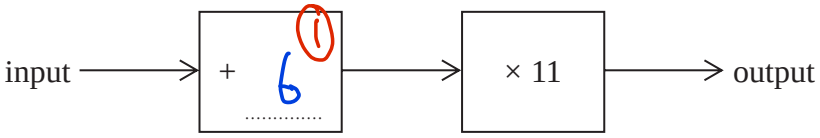
$28 \div 7 = 4 \quad 4 + 5 = 9$

9 (1)

.....

(1)

Here is a different number machine.
The number machine is not complete.



When the input is 8, the output is 154

(b) Complete the number machine.

(2)

$8 \rightarrow [+ ?] \rightarrow 14 \rightarrow [\times 11] \rightarrow 154$

$\frac{154}{11} = 14$ (1)

Work backwards using the opposite operations.

$8 + \underline{?} = 14$

$\underline{?} = 14 - 8 = 6$

(Total for Question 1 is 3 marks)