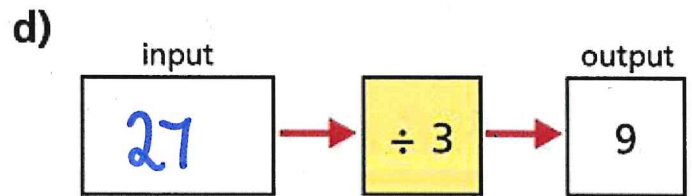
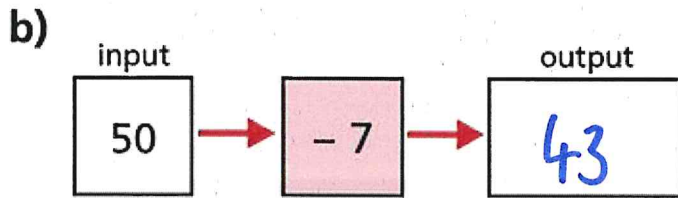
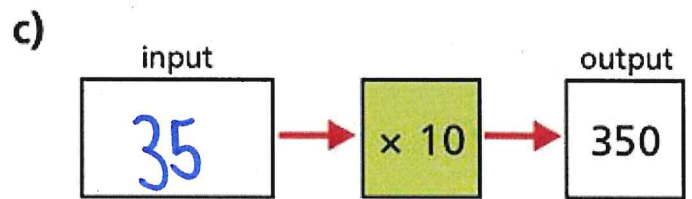
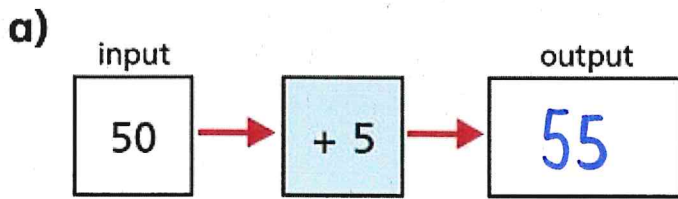


Calculate the inputs for the function machines.

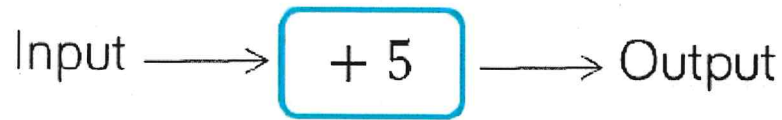


$$\begin{array}{r} \underline{2} \\ \underline{5} \\ \underline{7} \end{array} \xrightarrow{+4} \begin{array}{r} \underline{6} \\ \underline{9} \\ \underline{11} \end{array}$$

$$\begin{array}{r} \underline{6} \\ \underline{7} \\ \underline{9} \end{array} \xrightarrow{-3} \begin{array}{r} \underline{3} \\ \underline{4} \\ \underline{6} \end{array}$$

$$\begin{array}{r} \underline{3} \\ \underline{7} \\ \underline{8} \end{array} \xrightarrow{+6} \begin{array}{r} \underline{9} \\ \underline{13} \\ \underline{14} \end{array}$$

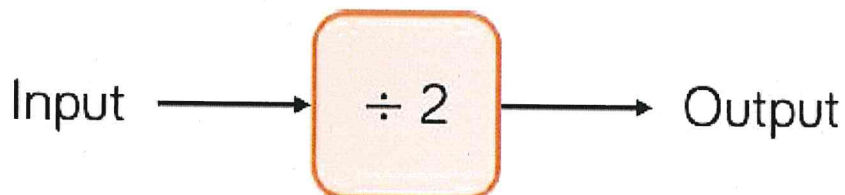
Complete the table for the given function machine.



Input	5	5.8	10	-3	-8	4	164	-5	a	y
Output	10	10.8	15	2	-3	9	169	0	a+5	y+5

### Working Deeper

Dora puts a number into the function machine.

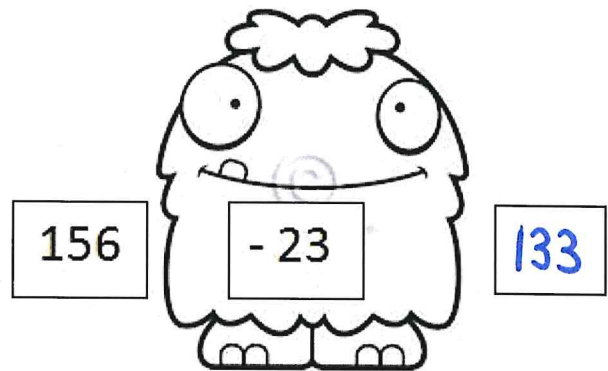
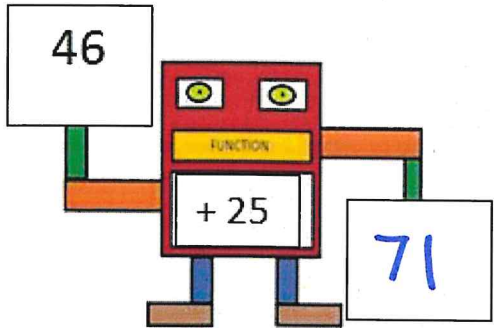
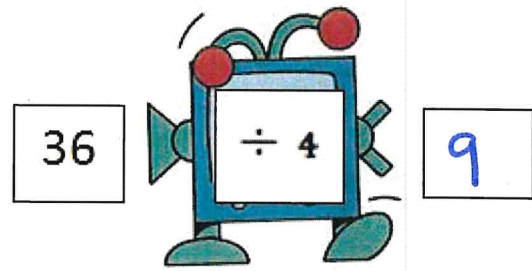
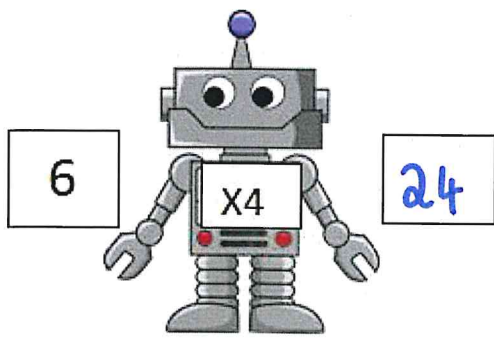


Dora's number is:

- A factor of 32
- A multiple of 8
- A square number

What is Dora's input? 16

What is her output? 8



$$\begin{array}{r} 2 \\ 5 \\ 7 \end{array} \xrightarrow{+ 4} \begin{array}{r} 6 \\ 9 \\ 11 \end{array}$$

$$\begin{array}{r} 2 \\ 5 \\ 6 \end{array} \xrightarrow{\times 3} \begin{array}{r} 6 \\ 15 \\ 18 \end{array}$$

$$\begin{array}{r} 4 \\ 8 \\ 16 \end{array} \xrightarrow{\div 2} \begin{array}{r} 2 \\ 4 \\ 8 \end{array}$$

$$\begin{array}{r} 0 \\ 3 \\ 5 \end{array} \xrightarrow{\times 4} \begin{array}{r} 0 \\ 12 \\ 20 \end{array}$$

1. Rule: add 28

IN		OUT
34	→	62
45	→	73
22	→	50
63	→	91

$$\begin{array}{r} 4 \\ 50 \\ -28 \\ \hline 22 \end{array}$$