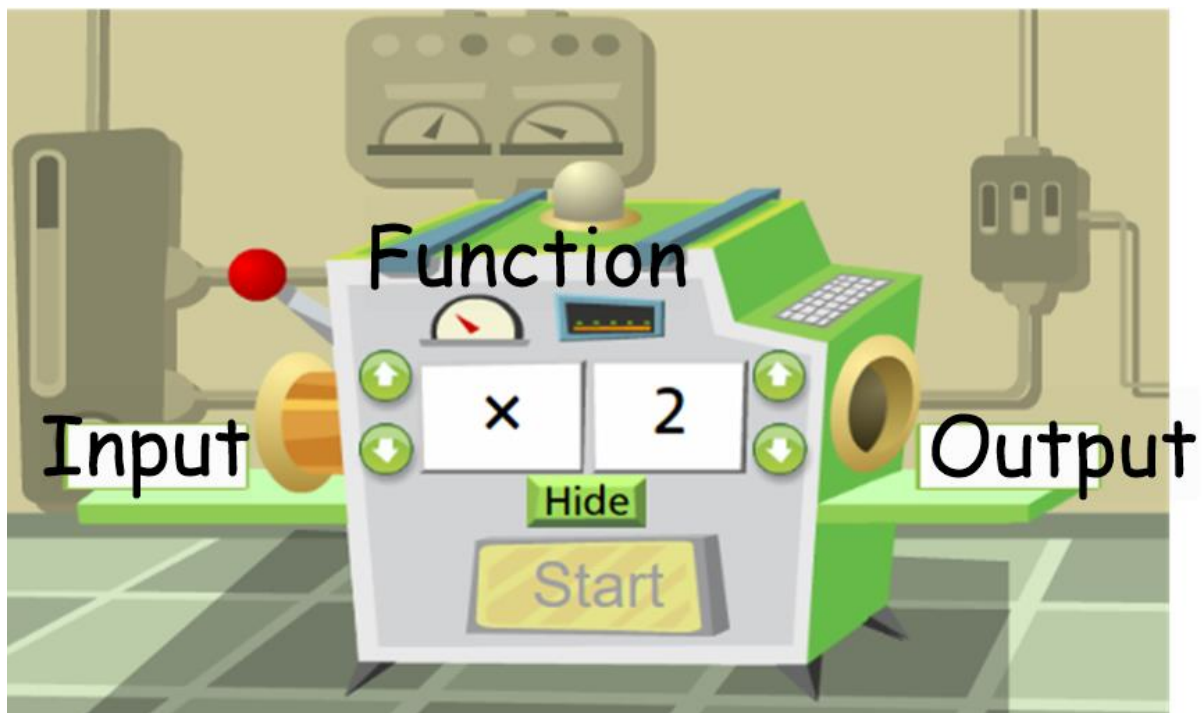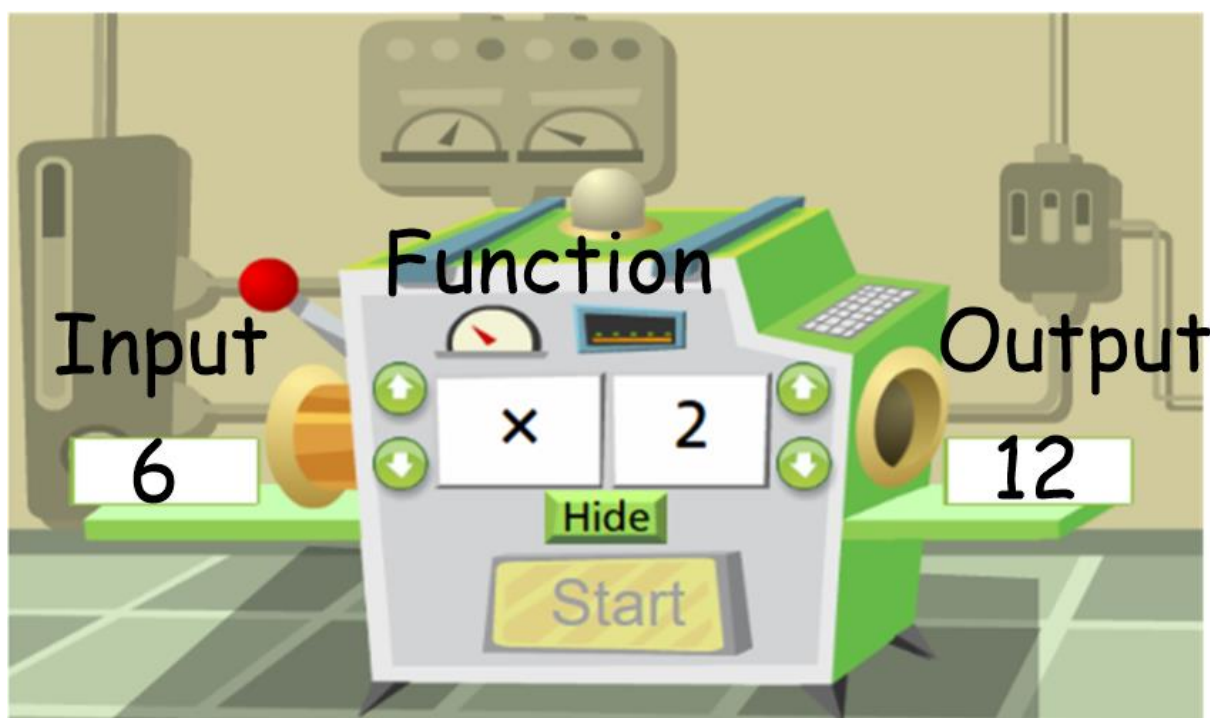# Maths

Today, we're going to use a **function machine** to help with multiplication.

A function machine is where you put a number in (the **Input**), then you multiply it by another number (the **Function**) to get the answer (the **Output**).



So, in this example the input was 6; this was then multiplied by the function 2 which then produced the output of 12.

Another way of showing that is:

| Input | Function | Output |
|-------|----------|--------|
| 6 | × 2 | 12 |

In your home learning book write out and then work out the outputs (answers) to these questions (perhaps on a piece of scrap paper create your own function machine).

## These are inputs for the ×3 machine. Write the outputs.

4  ×3  12

| 1 | 6 | | 3 | 12 | | 5 | 7 |
|---|---|---|---|----|---|---|---|
| 2 | 8 | | 4 | 10 | | | |

## Here are outputs from the ×3 machine. Write the inputs.

| 6 | 9 | 7 | 24 | 8 | 27 | 9 | 15 | 10 | 33 |
|---|---|---|----|---|----|---|----|----|----|

## These are inputs for the ×4 machine. Write the outputs.

| 11 | 5 | 13 | 9 | 15 | 11 |
|----|---|----|---|----|----|
| 12 | 3 | 14 | 12 | | |

5  ×4  20
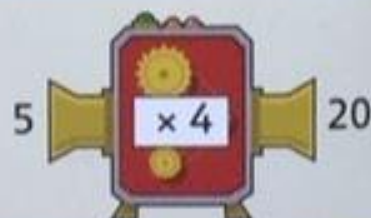
## Here are outputs from the ×4 machine. Write the inputs.

| 16 | 16 | 17 | 32 | 18 | 48 | 19 | 400 | 20 | 80 |
|----|----|----|----|----|----|----|-----|----|----|