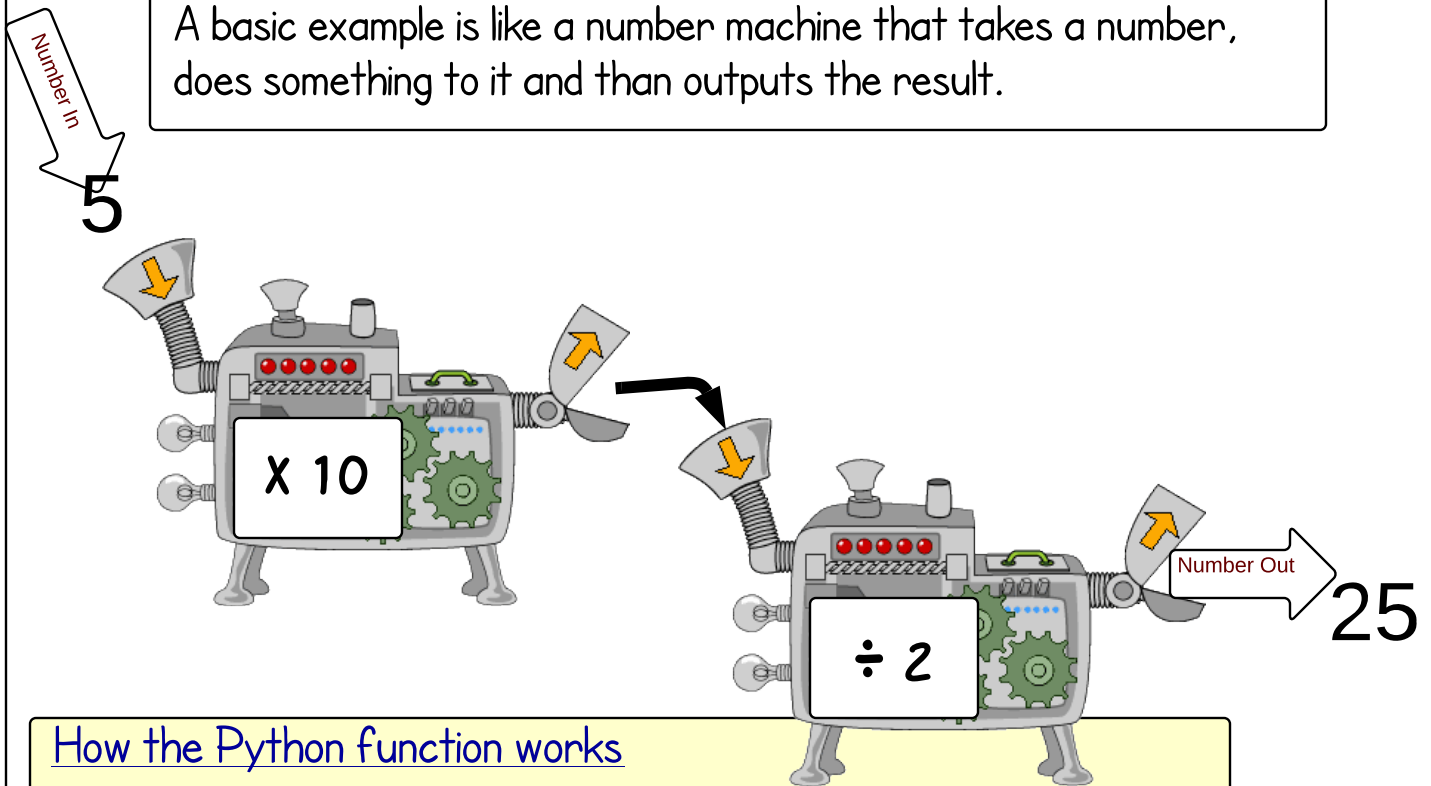# Functions in Python

In Python we can create functions which take an input, carry out a process and output a result.
A basic example is like a number machine that takes a number, does something to it and than outputs the result.

Number In

5

X 10

÷ 2

Number Out

25

How the Python function works

This part tells the computer that the next thing written will be a function

This part is the name of the function

The x is what is passed into the function. In the example above it is the number 5

```
def numberMachine(x):
    x = x * 10 / 2
    print(x)
```

The print function prints out the result of x

This is the calculation that is done to x

? DID YOU NOTICE ?

The print is a function within this function?
It will print out whatever is inside the brackets.
In this case the variable x.

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