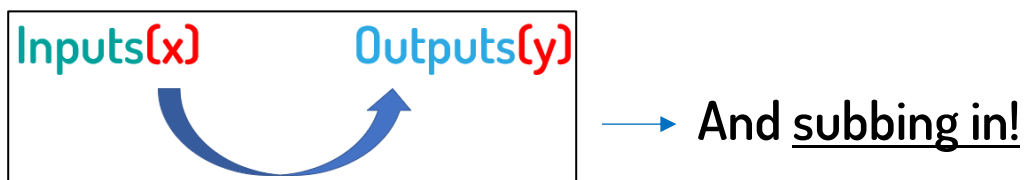


NICKS & TRICKS

JCHL Guide to - Functions

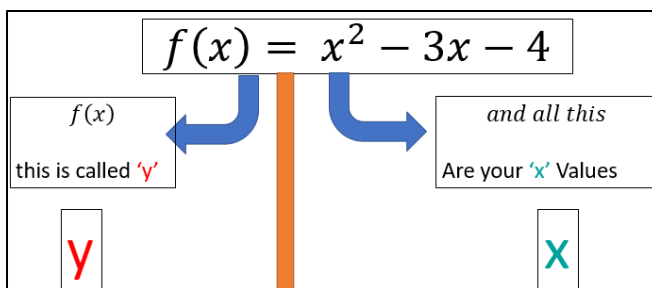
REMEMBER:

1. Functions are all about:

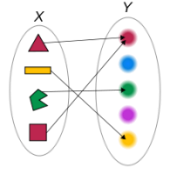


2. Every input **must** have
1 output and only 1 output!!!

3. Don't make this mistake!



Worked Example



Given that $f(x) = 3x - 4$ and that $f(k) = 11$, find the value of k .

$$f(x) = 3x - 4$$

$$f(k) = 11$$

$$3(k) - 4 = 11$$

$$3k = 11 + 4$$

$$3k = 15$$

$$k = 5$$

Sub $x = k$ into the function and let equal to 11.

Exam Questions – 15 mins – Time yourself!

2020 Mock Exam

Question 5

(Suggested maximum time: 10 minutes)

f is a function $f: x \mapsto 2x - 5, x \in \mathbb{R}$.

(a) Evaluate the following

(i) $f(4)$

(ii) $f(-2)$

(b) Find the value of x for which $f(x) = 21$.

2016 Mock Exam

Given that $f(x) = kx + 8$ and that $f(9) = 44$, find the value of k .