

YOU & MATHS **Four functions** Consider the following four functions:

$$f(x) = 3x + 1, h(x) = x^3 + 1, g(x) = 3x + 2, k(x) = 2x + 7.$$

- a. Jean chooses one of these functions. When she uses the number 1 as an input, she gets 2. Which function did she choose?
- b. Bruce chooses one of these functions. When he uses the number 3 as an input, he gets 13. Which function did he choose?

a. Jean chose function h because $h(1) = 1^3 + 1 = 2$.

b. Bruce chose function k because $k(3) = 2 \cdot 3 + 7 = 6 + 7 = 13$.